

September 9, 2020

BY HAND DELIVERY AND ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

RE: Docket 5066 – 2020 Gas Cost Recovery Filing Responses to Division Data Requests – Set 1

Dear Ms. Massaro:

I have enclosed an electronic version of National Grid's¹ responses to the Division of Public Utilities and Carriers' First Set of Data Requests in the above-referenced docket.²

This filing also contains a Request for Protective Treatment of Confidential Information pursuant to Rule 810-RICR-00-00-1.3(H) of the Public Utilities Commission's (PUC) Rules of Practice and Procedure and R.I. Gen. Laws § 38-2-2(4)(B).

National Grid seeks protection from public disclosure certain confidential gas-cost pricing information and commercial contract terms, which are provided in responses to the following data requests: DIV 1-1, DIV 1-2, DIV 1-5, DIV 1-6, DIV 1-15, DIV 1-21, DIV 1-27, and DIV 1-28.

Accordingly, National Grid has provided the PUC with one complete unredacted copy of the confidential materials electronically via the Company's encryption software, Egress Switch. National Grid has included electronic redacted copies of these materials for the public filing.

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¹ The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

² Per practice during the COVID-19 emergency period, the Company is providing PDF versions of the enclosures. The Company will provide the Commission Clerk with hard copies and, if needed, additional hard copies of the enclosures at a later date.

Luly E. Massaro, Commission Clerk Docket 5066 – Responses to Division Data Requests – Set 1 September 9, 2020 Page 2 of 2

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,

Raquel J. Webster

Enclosures

cc: Docket 5066 Service List

Leo Wold, Esq. John Bell, Division

Al Mancini, Division (w/Confidential versions via Egress Switch)

Jerome D. Mierzwa, Division Consultant (w/Confidential version via Egress Switch)

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

Just can	
and a compared the compared to	September 9, 2020
Joanne M. Scanlon	Date

Docket No. 5066 – National Grid – 2020 Annual Gas Cost Recovery Filing (GCR) - Service List as of 9/8/2020

Name/Address	E-mail	Phone
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National Grid		
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Waltham, MA 02451	Joanne.scanlon@nationalgrid.com;	
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280 Melrose Street		
Providence, RI 02907		
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Steven Boyajian, Esq.		
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Columbia, MD 21044		
File an original & nine (9) copies w/:	Luly.massaro@puc.ri.gov;	401-780-2107
Luly E. Massaro, Commission Clerk		
Patricia Lucarelli, Commission Counsel	Patricia.lucarelli@puc.ri.gov;	
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89 Jefferson Blvd.		
Warwick, RI 02888	Todd.bianco@puc.ri.gov;	
Office of Energy Resources	Christopher.Kearns@energy.ri.gov;	
Christopher Kearns	N' 1 1 '0 '	
Nicholas Ucci	Nicholas.ucci@energy.ri.gov;	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS RHODE ISLAND PUBLIC UTILITIES COMMISSION

Annual Gas Cost Recovery Filing 2020)	Docket No. 5066
2020)))	

MOTION OF THE NARRAGANSETT ELECTRIC COMPANY D/B/A NATIONAL GRID FOR PROTECTIVE TREATMENT OF CONFIDENTIAL INFORMATION

Pursuant to Rule 810-RICR-00-00-1.3(H) of the PUC's Rules of Practice and Procedure (Rue 1.3(H)) and R.I. Gen. Laws § 38-2-2(4)(B), National Grid¹ respectfully requests that the Rhode Island Public Utilities Commission ("PUC") grant protection from public disclosure certain confidential, competitively sensitive, and proprietary information submitted in the Company's responses(Data Request Responses) to the Rhode Island Division of Public Utilities an Carriers' First Set of Data Requests Directed to National Grid in the above-captioned docket (Division's Data Requests). The Company also respectfully requests that, pending entry of that finding, the PUC preliminarily grant the Company's request for confidential treatment of the designated Data Request Responses pursuant to Rule 1.3(H)(2).

I. BACKGROUND

On August 19, 2020, National Grid received the Division's Data Requests regarding it's 2020 Annual Gas Cost Recovery filing, which the Company filed on September 1, 2020. The Division's Data Requests seek a significant volume of confidential gas cost pricing information

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¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

and contract terms, which are provided in the following Data Request Responses or the accompanying attachments: DIV 1-1, DIV 1-2, DIV 1-5, DIV 1-6, DIV 1-15, DIV 1-21, DIV 1-27, and DIV 1-28. In accordance with Rule 1.3(H)(3), National Grid has provided redacted public and unredacted confidential versions of its responses to these eight data requests.

The Company requests that, pursuant to Rule 1.3(H), the PUC afford confidential treatment to the gas cost pricing information and contract terms contained in the following Data Request Responses or accompanying attachments: DIV 1-1, DIV 1-2, DIV 1-5, DIV 1-6, DIV 1-15, DIV 1-21, DIV 1-27, and DIV 1-28.

II. LEGAL STANDARD

Rule 1.3(H) provides that access to public records shall be granted in accordance with the Access to Public Records Act (APRA), R.I. Gen. Laws § 38-2-1, et seq. Under the APRA, all documents and materials submitted in connection with the transaction of official business by an agency are deemed to be "public record[s]," unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I. Gen. Laws § 38-2-2(4). To the extent that information provided to the PUC falls within one of the designated exceptions to the public records law, the PUC has the authority under the terms of APRA to deem such information as confidential and to protect that information from public disclosure.

In that regard, R.I. Gen. Laws § 38-2-2(4)(B) provides that the following types of records shall not be deemed public:

Trade secrets and commercial or financial information obtained from a person, firm, or corporation which is of a privileged or confidential nature.

The Rhode Island Supreme Court has held that this confidential information exemption applies where the disclosure of information would be likely either (1) to impair the government's ability to obtain necessary information in the future; or (2) to cause substantial harm to the competitive

position of the person from whom the information was obtained. *Providence Journal*, 774 A.2d 40 (R.I. 2001).

The first prong of the test is satisfied when information is provided to the governmental agency and that information is of a kind that would customarily not be released to the public by the person from whom it was obtained. *Providence Journal*, 774 A.2d at 47.

III. BASIS FOR CONFIDENTIALITY

The gas cost pricing information and confidential contract terms – which are provided in Data Request Responses DIV 1-1, DIV 1-2, DIV 1-5, DIV 1-6, DIV 1-15, DIV 1-21, DIV 1-27, and DIV 1-28 – are confidential and privileged information of the type that National Grid would not ordinarily make public. As such, the information should be protected from public disclosure. Public disclosure of such information could impair National Grid's ability to obtain advantageous pricing or other terms in the future, thereby causing substantial competitive harm. Accordingly, National Grid is providing the information on a voluntary basis to assist the PUC with its decision-making in this proceeding, but respectfully requests that the PUC provide confidential treatment to the information.

IV. CONCLUSION

For the foregoing reasons, National Grid respectfully requests that the PUC grant its Motion for Protective Treatment of Confidential Information.

[SIGNATURE ON NEXT PAGE]

Respectfully submitted,

THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

By its attorney,

Raquel J. Webster (Bar #9064)

National Grid 40 Sylvan Road Waltham, MA 02451 Tel. 781-907-2121

Raquel.webster@nationalgrid.com

Dated: September 9, 2020

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-1

Request:

Please provide a complete *monthly* history of the Company's gas purchase activity for the period April 2019 through July 2020. Please provide the Company's response in Excel format. The history should include the following:

- a. Rates paid to each supplier and under each pipeline/contract/rate schedule by component (i.e., demand/reservation, variable, deliverability, capacity, injection/withdrawal, commodity, etc.), separately for firm and interruptible gas purchase, transportation, and storage transactions;
- b. The applicable quantity for each component identified in subpart (a);
- c. The applicable cost for each component identified in subpart (a);
- d. For each gas supply purchase, identify the transporting pipeline(s) and receipt and delivery points. Provide a key identifying pipeline receipt points by zone (e.g., TGP 4):
- e. For all gas supply purchases made under interruptible delivery arrangements, indicate whether transportation charges are incorporated within or are in addition to the commodity gas costs;
- f. For gas supply purchases, identify the dates of flow; and
- g. Separately identify any transactions made to support off-system sales.

Response:

Please see the attached Excel spreadsheet, Attachment DIV 1-1 for (a) - (f), for the information concerning the Company's gas purchase activity for the period of April 2019 through July 2020 requested in (a) - (f) above.

Attachment DIV 1-1 contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of Attachment DIV 1-1, subject to a Motion for Protective Treatment.

With respect to (g), the Company does not associate specific purchases to specific sales to calculate margins. As described in Section III.E of the Company's Natural Gas Portfolio Management Plan, approved by the Rhode Island Public Utilities Commission in Docket No. 4038, the Company calculates a weighted average price of all purchased supply and uses that cost to calculate margins against all Company sales.

The Narragansett Electric Company d/b/a National Grid Undocketed

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Attachment DIV 1-1

Please see Excel Version of Attachment DIV 1-1

The Narragansett Electric Company d/b/a National Grid Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-2

Request:

Excluding those agreements which govern Canadians pipeline contracts, please provide a copy of each Asset Management Agreement in effect during the period April 2019 through July 2020.

Response:

Please see Attachment DIV 1-2 for all Asset Management Agreements in effect during the period April 2019 through July 2020.

Attachment DIV 1-2 contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of Attachment DIV 1-2, subject to a Motion for Protective Treatment.

Page 1 of 10

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nationalgrid

Transaction Confirmation Asset Management Arrangement (Package 3) The Narragansett Electric Company d/b/a National Grid

TRANSAC	TION CONFIRMATION
dated August 13, 2019. This Transaction Confirmation is s	Date: September 17, 2019 Transaction Confirmation #: Itional Grid's Request for Proposals for Asset Management Arrangements subject to the Base Contract between Seller and Buyer, dated August 1,
SELLER OR ASSET MANAGER: EDF Trading North America, LLC 601 Travis Street, Suite 1700 Houston, TX 77002 Attn: Contract Administration Phone: (281) 781-0333 Fax: (281) 653-1454 Trader: Daniel Mraz	BUYER: The Narragansett Electric Company d/b/a National Grid 100 East Old County Road Hicksville, New York 11801 Attn: Contract Administration Phone: (516) 545-6068 Fax: (516) 545-5466 Transporters: Union Gas Limited ("Union"), TransCanada Pipelines Limited ("TransCanada"), Iroquois Gas Transmission System, L.P. ("Iroquois") Tennessee Gas Pipeline Company, L.L.C. ("Tennessee"). Transporters Contract Number: Trader: Samara Jaffe
Contract Price: See Special Conditions Section C below	v.
Term: Begin: November 1, 2019 End:	October 31, 2020
Performance Obligation and Contract Quantity: See Spe	ecial Conditions below.
	the Additional Call, the primary Delivery Point shall be the point of system that is the primary Delivery Point under the Tennessee Asset.
Special Conditions:	
A. Definitions	

"Assets" means the	Agreements	summarized	as follows:
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Pipeline	Contract	Quantity Dt/day	Quantity Gj/day	Receipt Point	Delivery Point
Union	M12164	1,025	1,081	Dawn	Parkway
TransCanada	42386	1,012	1,068	Parkway	Waddington
Iroquois	50001	1,012	NA	Waddington	Wright
Tennessee	95345	1,000	NA	Wright	Lincoln, RI

"CFTC" shall mean the Commodities Futures Trading Commission.

"Credit Support Provider" means EDF Trading Limited.

RIPUC Docket No. 5066

Attachment DIV 1-

"Dekatherm" or "Dth" or "dt" means one (1) MMBtu.

Page 2 of 10

"EBB" means Buyer's Electronic Bulletin Board utilized for confirmation of Gas. "FERC" means the Federal Energy Regulatory Commission.

"FERC" means the Federal Energy Regulatory Commission.

"Letter of Credit" means an irrevocable, non-transferable, standby letter of credit issued by a major U.S. commercial bank, a U.S. branch office of a foreign bank, or U.S. financial institution, in any case with a credit rating of at least "A-" by S&P and "A3" by Moody's in a form reasonable acceptable to the Buyer. All costs related to any Letter of Credit shall be for the account of the Seller.

"Moody's" means Moody's Investors Services, Inc., or its successor.

"S&P" means S&P Global Ratings, or its successor.

B. Gas Service and Capacity Assignment

1. Release and Assignment of Assets: During the Term, Buyer will release/assign, on a pre-arranged, zero rate, non-biddable basis, at no cost to Seller, the Assets. With respect to pipeline transportation service in Canada: (i) Buyer shall assign to Seller Union Gas Limited ("Union") firm transportation service as described in Contract M12164 from Dawn to Parkway in an amount of 1,081 GJ/Day pursuant to a temporary assignment with Union; and (ii) Buyer shall assign to Seller TransCanada Pipelines Limited ("TransCanada") firm transportation service as described in Contract 42386from Parkway to Waddington in an amount of 1,068 GJ/Day pursuant to a temporary assignment with TransCanada. Buyer shall be responsible for the payment of all demand charges related to the Assets. Notwithstanding the foregoing, Seller shall initially pay the demand charges to TransCanada and Union and Buyer shall reimburse Seller for 100% of the demand charges related to the Assets for the volumes delivered by Seller to Buyer under this Transaction Confirmation. Reimbursement of such charges shall be paid in U.S. dollars and based on the Bank of Canada's monthly average exchange rate for the month of business as published on the last business day of the month of production. Seller shall be responsible for all variable costs in connection with the Assets during the Term unrelated to deliveries for Buyer. Buyer and Seller each agree to take such actions and execute all documents as may be required to effectuate the assignment of the Assets from Buyer to Seller. All assignments shall be subject to recall in the event that an Event of Default occurs with respect to Seller as the Defaulting Party.

2. Gas Supply Requirements:

- A.On any day during the period of November 1, 2019 through March 31, 2020 of the Term, Buyer shall have the right, but not the obligation, to call on Seller to deliver up to the MDQ at the Tennessee Delivery Point. The MDQ shall be adjusted upward or downward based upon the deliverability and applicable fuel retention on each of Union, TransCanada, Iroquois and Tennessee. Subject to satisfaction of these Gas Supply Requirements, Asset Manager shall have the right to optimize the assigned capacity for its own account. Subject to the following:
 - At least five business days prior to the 1st day of the following month of delivery, Buyer shall have the right, but not the obligation, to request Base-Load delivery of such Gas Supply at the Delivery Point up to the MDQ during this delivery period.
 - Further, subject to Buyer having exercised its Base-Load rights, Buyer shall have a right to call on a quantity up to the remaining MDQ.
 - iii. Additional Call In addition to the Gas Supply Requirements set forth in Special Condition B(2)(A) of this Transaction Confirmation, on any Day during the period of November 1, 2019 through March 31, 2020 of the Term, Buyer shall have the right, but not the obligation, to call on a quantity of Gas up to the contract quantity of each of the Iroquois and Tennessee Assets at the primary Delivery Point(s) under each such released Asset. Seller's delivery obligations under this Additional Call provision and its delivery obligation pursuant to all Gas Supply Requirements provisions above shall not be cumulative and may only be exercised after Buyer has exhausted its rights pursuant to firm base-load and daily call supplies (i.e., Buyer's right to request gas at the Iroquois or Tennessee Delivery Point(s) pursuant to these Gas Supply Requirements provisions and under this Additional Call provision shall be reduced by quantities requested at any upstream Delivery Point).

B. Termination Right: If at any time during the Term, an Event of Default occurs with respect to Seller as the Defaulting Party, unless such failure is excused by the Buyer's non-performance or caused by Force Majeure, Buyer shall have the right to terminate this Transaction Confirmation and recall the Assets.

C. Nominations

RIPUC Docket No. 5066

Attachment DIV 142

Page 3 of 10 Buyer shall make all nominations for all delivery of Gas hereunder prior to 10:00 a.m. prevailing Eastern Standard Time on the Business Day prior to the Gas Day on which delivery of Gas is requested. Friday nomination shall be for Saturday through Monday (ratably). Holidays are as determined by ICE and shall be treated the same as weekends (i.e., nominated ratably on Business Day prior to the Holiday).

Buyer shall arrange for Seller's use and access of the EBB. Seller shall utilize the EBB to schedule all Gas purchased pursuant to this AMA to the Delivery Point(s) for confirmation by National Grid's Gas Control. Use of the EBB or other means of requests for confirmation of meter bounce transactions at the Delivery Point or other points of interconnection with Buyer's facilities shall be strictly prohibited. Use of the EBB or other means of requests for confirmation of meter bounce transactions at the Delivery Point or other points of interconnection with Buyer's facilities shall be strictly prohibited.

D. Price The commodity price for Gas purchased pursuant to Special Condition 2 shall be as follows:

1.	The commodity price for Gas called on through the exercise of a daily ca	all
	pursuant to Special Condition B(2)(A)(ii) shall be equal to	

- 2. The commodity price for Gas called on through the Base-Load option pursuant to Special Condition B(2)(A)(i) shall be equal to
- The commodity price for Gas called on through the Additional Call option pursuant to Special Condition B(2)(B) shall be equal to

E. Asset Management Fee

Subject to the delivery obligations set forth above, Seller shall have the right to optimize the assigned capacity for its own account. In exchange for such right, during the Term, Seller shall make a payment to Buyer of payable in equal monthly installments of

F. Credit Provisions

Independent Amount. In the event Seller (i) has a Credit Rating at or below BBB- by S&P and/or Baa3 by Moody's, or (ii) is unrated, Seller shall provide Buyer with an Independent Amount in the form of either (a) a guaranty from a Credit Support Provider rated at least BBB- by S&P and/or Baa3 by Moody's, (b) cash, or (c) a Letter of Credit, in either case, in an amount equal to 10% of the potential mark to market exposure for the transactions hereunder calculated as a function of price volatilities as well as the notional volume; provided, however, that the potential mark to market exposure shall be zero (0) when Seller's price is set at the Gas Daily Index.

Collateral Requirement. The "Collateral Requirement' for Seller means the Exposure (as defined below), minus the sum of (i) the amount of cash previously transferred by Seller to Buyer, (ii) the amount of cash held by Buyer as posted collateral as the result of drawing under any Letter of Credit maintained by Seller for the benefit of Buyer, and (iii) the undrawn value of each such Letter of Credit; provided, however, that the Collateral Requirement for Seller will be deemed to be zero (0) if (i) Seller or its Credit Support Provider has a Credit Rating of at least BBB- by S&P and/or Baa3 by Moody's, and (ii) no Event of Default with respect to Seller has occurred and is continuing. Seller may provide the Collateral Requirement in the form of either (a) a guaranty from a Credit Support Provider rated at least BBB- by S&P and/or Baa3 by Moody's, (b) cash, or (c) a Letter of Credit. The "collateral Requirement" for Buyer means zero (0).

"Exposure" shall be calculated as the sum of:

- (i) all amounts that have been invoiced, but not yet paid for the transactions under this Transaction Confirmation; plus
- (ii) all amounts that have been accrued, but not yet invoiced for the transactions under this Transaction Confirmation; plus
- (iii) the mark to market amount for each Day remaining in the term for each transaction under this Transaction Confirmation; reduced by
- (iv) the Independent Amount, if any, previously provided by the Seller to the Buver.

RIPUC Docket No. 5066

Attachment DIV 1-2

G. Asset Management Arrangement ("AMA")

Page 4 of 10

The parties acknowledge and agree that the transactions hereunder (including the release of capacity) constitute an Asset Management Arrangement and that such arrangement qualifies as a bona fide "asset management arrangement" pursuant to FERC Order No. 712, and related FERC regulations and policy as may be amended from time to time, and that Seller is acting as Asset Manager as defined in 18 CFR 284.8(h)(3), as may be amended from time to time. The parties further agree that all transactions contemplated under this Transaction Confirmation are intended to be in full compliance with the applicable rules, regulations and policies of the FERC, including Order No. 712 and shall be executed in conformance therewith. If it is determined that this transaction does not constitute an AMA, the parties agree to modify the transaction as required while maintaining, to the extent possible, the economics of the transaction.

H. Import/Export Reporting

Any import/export reporting requirements applicable to the quantities of natural gas delivered to Buyer hereunder, whether of the National Energy Board, the U.S. Department of Energy Office of Fossil Energy, the U.S. Customs Service, or any other regulatory body having jurisdiction over the volumes, are the responsibility of Asset Manager.

I. Changes in Law

If the FERC, CFTC, or other applicable regulatory body shall implement any change in law, rule, regulation, tariff or practice that is binding on Seller or Buyer and materially and adversely affects such party's ability to perform its obligations hereunder, the parties shall negotiate in good faith an amendment to this Transaction Confirmation or take other appropriate action the effect of which is to restore each party, as closely as possible, to its same position as prior to such change. If, within sixty (60) days after the implementation of such change, the parties are unable to agree on such amendment or such other appropriate action, each party will continue to perform its obligations hereunder to the maximum extent possible under the applicable law, rule, regulation, tariff or practice, taking all reasonable steps to mitigate the effect of such change on each other.

Seller: EDF Trading North America, LLC	Buyer: The Narragansett Electric Company d/b/a National Grid
Name: Kathy Stroman Title: Date: Confirmations Mgc	By:
10/./19	10104/2019

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-2 Page 5 of 10

nationalgrid

Asset Management Arrangement (Package No. 4)
Transaction Confirmation
The Narragansett Electric Company d/b/a National Grid

#6876230 6876231 6876240

TRANSACTION CONFIRMATION

	Date: August 23, 2019 Transaction Confirmation #:		
Management Arrangements dated August 13, 2019. To of gas are subject to the NAESB Base Contract for the 1, 2012 (as may be amended or supplemented, the "li	Ition was awarded pursuant to National Grid's Request for Proposals for Asset he portions of this Transaction Confirmation relating to the purchase and sale Sale and Purchase of Natural Gas between Seller and Buyer, dated January Base Contract"). This Transaction Confirmation will not become binding until ut not defined herein shall be as defined in the Base Contract.		
SELLER: Freepoint Commodities, LLC 58 Commerce Road Stamford, CT 06902 Attn: Contract Department Phone: 203-542-6000 Fax: 203-724-0906	BUYER: The Narragansett Electric Company d/b/a National Grid 100 East Old County Road Hicksville, New York 11801 Attn: Contract Administration Phone: (516) 545-6068 Fax: (516) 545-5466 Base Contract No. Transporters: Tennessee Gas Pipeline Company, L.L.C. ("Tennessee") Trader: Samara Jaffe		
Contract Price: See Special Conditions Section C b			
Performance Obligation and Contract Quantity: S			
Delivery Point(s): The point of interconnection between Tennessee and Buyer's facilities at Cranston, RI and Lincoln, RI.			
Special Conditions:	6		
A. Definitions			
"Assets" means Buyer's FT-A Contracts with Tennessee having primary receipts at Dracut, MA (pin number 412538) and primary deliveries in Zone 6 the point(s) of interconnection between Tennessee and Buyer's facilities in Cranston, RI, NY (pin number 420750) and Lincoln, RI (pin number 420758). The maximum delivered quantity of the Assets is 22,300 dt/day ("MDQ"), which is allocated as 20,000 dt/day at Cranston and 2,300 dt/day at Lincoln.			
"Credit Support Provider" means a legal entity proposed by Seller and acceptable to Buyer.			
*CFTC" means the Commodity Futures Trading Commission.			
"Dekatherm" or "Dth" or "dt" means one (1) MMBtu.			
"EBB" means Buyer's Electronic Bulletin Board utilized for confirmation of Gas.			
"FERC" means the Federal Energy Regulatory Comr	nission.		

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-2

Page 6 of 10

"Letter of Credit" means an irrevocable, non-transferable, standby letter of credit issued by a major U.S. commercial bank, a U.S. branch office of a foreign bank, or U.S. financial institution, in any case with a credit rating of at least "A-" by S&P and "A3" by Moody's, in a form reasonably acceptable to the Buyer. All costs related to any Letter of Credit shall be for the account of the Seller.

"Moody's" means Moody's Investors Service, Inc. or its successor.

"S&P" means S&P Global Ratings, or its successor.

B. Gas Service and Capacity Release

- a. Release of Assets: During the Term, Buyer shall release the Assets on a pre-arranged, non-biddable basis, at no cost to Seller. Buyer shall be responsible for the payment of all demand charges related to the Assets. Seller shall be responsible for all variable costs in connection with the Assets during the Term unrelated to deliveries for Buyer. Buyer and Seller each agree to take such actions and execute such documents as may be required to effectuate the release of the Assets from Buyer to Seller.
- b. Daily Call: On any day during the period of December 1, 2019 through April 30, 2020, Buyer shall have the right, but not the obligation, to call on a quantity of Gas up to the MDQ at the Delivery Point(s).
- c. Termination Option: If at any time during the Term, Seller fails to deliver Gas required to be delivered hereunder, unless such failure is excused by the Buyer's non-performance or caused by Force Majeure, Buyer shall have the right to terminate this Transaction Confirmation and recall the Assets.

C.	Price: For the first ten (10) days on which Buyer exercises the call option pursuant to Special Condition B(b) (the "Call Option"). the Price for gas delivered in respect of such exercise (per dth) shall be equal to the price published in row

D. Nominations

Buyer shall make all nominations for delivery of all Gas Supply Requirements prior to 10:00 AM, prevailing Eastern Standard Time on the Business Day prior to the Gas Day on which delivery of Gas is requested. Friday nomination shall be for Saturday through Monday (ratably). Holidays are as determined by ICE and shall be treated the same as weekends (i.e., nominated ratably on the Business Day prior to the Holiday).

Buyer shall arrange for Seller's use and access of the EBB. Seller shall utilize the EBB to schedule all Gas purchased pursuant to this AMA to the Delivery Point(s) for confirmation by National Grid's Gas Control. Use of the EBB or other means of requests for confirmation of meter bounce transactions at the Delivery Point or other points of interconnection with Buyer's facilities shall be strictly prohibited.

E. Asset Management Fee

Subject to the delivery obligations set forth above, Seller shall have the right to optimize the released capacity for its own account. In exchange for such right, during the Term, Seller shall make a payment to Buyer of ayable in equal monthly installments of This payment shall be reflected as a credit to Buyer in Seller's invoice for the applicable Month.

F. Credit Provisions

Independent Amount. In the event Seller (i) has a Credit Rating at or below BBB- by S&P and/or Baa3 by Moody's, or (ii) is unrated, Seller shall provide Buyer with an Independent Amount in the form of either (a) a guaranty from a Credit Support Provider rated at least BBB- by S&P and/or Baa3 by Moody's, (b) cash, or (c) a Letter of Credit, in either case, in an amount equal to 10% of the potential mark to market exposure for the transactions hereunder calculated as a function of price volatilities as well as the notional volume; provided, however, that the potential mark to market exposure shall be zero (0) when Seller's price is set at the Gas Daily index-based price.

Collateral Requirement. The "Collateral Requirement" for Seller means the Exposure (as defined below), minus the sum of (i) the amount of cash previously transferred by Seller to Buyer, (ii) the amount of cash held by Buyer as posted collateral as the result of drawing under any Letter of Credit maintained by Seller for the benefit of Buyer, and (iii) the undrawn value of each Letter of Credit; provided, however, that the Collateral Requirement for Seller will be deemed to be zero (0) if (i) Seller has a Credit Rating of at least BBB- by S&P and/or Baa3 by Moody's, and (ii) no Event of Default with respect to Seller has occurred and is continuing. Seller may

Attachment DIV 1-2

REDACTED

provide the Collateral Requirement in the form of either (a) a guaranty from a Credit Support Provider rated at least BBB- by 5&P and/or Baa3 by Moody's, (b) cash, or (c) a Letter of Credit. The "Collateral Requirement" for Buyer means zero (0).

Exposure. shall be calculated as the sum of:

- (i) all amounts that have been invoiced, but not yet paid for the transactions under this Transaction Confirmation; plus
- (ii) all amounts that have been accrued, but not yet invoiced for the transactions under this Transaction Confirmation;
- (iii) the mark to market amount for each Day remaining in the term for each transaction under this Transaction Confirmation; reduced by
- (iv) the Independent Amount, if any, previously provided by the Seller to the Buyer.

G. Asset Management Arrangement

The Parties agree that the transactions hereunder constitute an Asset Management Arrangement, as defined by FERC in Order No. 712 (as modified and clarified) and in accordance with FERC's rules and regulations, and that Seller is acting as Asset Manager as defined in 18 CFR 284.8(h)(3).

H. Changes in Law

If the FERC, CFTC or other applicable regulatory body shall implement any change in law, rule, regulation, tariff or practice that is binding on Seller or Buyer and materially and adversely affects such party's ability to perform its obligations hereunder, the parties shall negotiate in good faith an amendment to this Agreement or take other appropriate action the effect of which is to restore each party, as closely as possible, to its same position as prior to such change. If, within sixty (60) Days after the implementation of such change, the parties are unable to agree on such amendment or such other appropriate action, each party will continue to perform its obligations hereunder to the maximum extent possible under the applicable law, rule, regulation, tariff or practice, taking all reasonable steps to mitigate the effect of such change on each other.

Seller:	Freepoint	Commodities,	LLC

By: Ahi Mathew
Tille: Diverton, Operations

Date: 9/9/19

Buyer: The Narragansett Electric Company d/b/a National Grid

Name: John V. Vaughn

Title: Authorized Signatory Date:

Page 3 of 3

Page 8 of 10

nationalgrid

Asset Management Arrangement (Package No. 7) The Narragansett Electric Company d/b/a National Grid

TRANSACTION CONFIRMATION

9	Date: September 27 <u>2019</u> Transaction Confirmation #:				
This Transaction Confirmation was awarded pursuant to National Grid's Request for Proposal for Asset Management Arrangements dated August 13, 2019, which is incorporated into and made a part hereof. This Transaction Confirmation is subject to the Base Contract for Sale and Purchase of Natural Gas between Seller and Buyer, dated January 22, 2016. This Transaction Confirmation will not become binding until executed by both parties.					
SELLER: Spotlight Energy, LLC Attn: Phone: 832-271-6767 Fax: 832-779-5455 Base Contract No Transporters: Transporters Contract Number: Trader: _	BUYER: The Narragansett Electric Company d/b/a National Grid 100 East Old County Road Hicksville, New York 11801 Attn: Contract Administration Phone: (516) 545-6068 Fax: (516) 545-5466 Base Contract No. Transporters: Columbia Gas Transmission L.L.C. ("TCo") Trader: Samara Jaffe				
	Contract Price: See Special Conditions Section C below.				
Term: Begin: November 1, 2019	End: October 31, 2020				
Performance Obligation and Contract Quantity: S	See Special Conditions below .				
Delivery Point(s): The point of interconnection between TCo and Algonquin Gas Transmission LLC ("AGT") into AGT known as TCo-Hanover.					
Special Conditions:					
A. Definitions					
"Assets" means Buyer's FTS contract 31523 with TCo, having primary receipts at Broadrun and primary deliveries in at the interconnection between TCo and Algonquin Gas Transmission, LLC ("AGT") at TCo-Hanover and a maximum daily quantity of 10,000 Dth/Day ("MDQ").					
"CFTC" means the U.S. Commodity Futures Trading	Commission.				
"Dekatherm" or "Dth" or "dt" means one (1) MMBtu.					
"FERC" means the Federal Energy Regulatory Com	nission.				
"Letter of Credit" means an irrevocable, non-transferable, standby letter of credit issued by a major U.S. commercial bank, a U.S. branch office of a foreign bank, or U.S. financial institution, in any case with a credit rating of at least "A-" by S&P and "A3" by Moody's, in a form reasonably acceptable to the Buyer. All costs related to any Letter of Credit shall be paid for by the Pledging Party.					
"Moody's" means Moody's Investors Service, Inc. or its successor.					
"Pledging Party" shall have the meaning set forth in F (Collateral Requirement) below.					

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-2

Page 9 of 10

"Secured Party" shall be the party other than the Pledging Party.

"S&P" means S&P Global Ratings, or its successor.

B. Gas Service and Capacity Release

- a. Release of Assets: During the Term, Buyer shall release the Assets on a pre-arranged, non-biddable basis, at no cost to Seller. Buyer shall be responsible for the payment of all demand charges related to the Assets. Seller shall be responsible for all variable costs in connection with the Assets during the Term unrelated to deliveries for Buyer. Buyer and Seller each agree to take such actions and execute such documents as may be required to effectuate the release of the Assets from Buyer to Seller.
- b. Daily Call: On any Day during the period of November 1, 2019 through April 15, 2020. Buyer shall have the right, but not the obligation, to call on a quantity of Gas up to the MDQ at the Delivery Point.
- c. Termination Option: If at any time during the Term, Seller fails to deliver Gas required to be delivered hereunder resulting in an Affected Transaction, unless such failure is excused by the Buyer's non-performance or caused by Force Majeure, Buyer shall have the right to terminate this Transaction Confirmation and recall the Assets.

C.	Price: The price for	or Gas called	on through	the exercise	of the D	aily Call	shall be equal	to
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D. Nominations

Buyer shall make all requests for the Daily Call prior to 10:00 AM, prevailing Eastern Standard Time on the Business Day prior to the Day on which delivery of Gas is requested. Friday nomination shall be for Saturday through Monday (ratably). Holidays are as determined by ICE and shall be treated the same as weekends (*i.e.*, nominated ratably on the Business Day prior to the Holiday).

E. Asset Management Fee

Subject to Buyer's Daily Call option set forth above, Seller shall have the right to optimize the released capacity for its own account, In exchange for such right, during the Term, Seller shall make a payment to Buyer of payable in equal monthly installments of This payment shall be reflected as a credit to Buyer in Seller's invoice for the applicable Month.

F. Credit Provisions

Collateral Requirement. The "Collateral Requirement" for a party (the "Pledging Party") means the Exposure (as defined below), minus the sum of (i) the amount of cash previously transferred to the Secured Party by the Pledging Party, (ii) the amount of cash held by the Secured Party as posted collateral as the result of drawing under any Letter of Credit maintained for the benefit of the Secured Party, and (iii) the undrawn value of each Letter of Credit; provided, however, that the Collateral Requirement for either party will be deemed to be zero (0) if (i) that party has a Credit Rating of at least BBB- by S&P and/or Baa3 by Moody's, and (ii) no Event of Default has occurred and is continuing. Either party may provide the Collateral Requirement in the form of either (a) a guaranty from a Guarantor if such Guarantor is rated at least BBB- by S&P and/or Baa3 by Moody's, (b) cash, or (c) a Letter of Credit.

Exposure. Exposure shall mean the Net Settlement Amount, as calculated by the Secured Party in good faith and in a commercially reasonable manner, that the Pledging Party would owe to the Secured Party if an Early Termination Date had been calculated as of the date of such calculation as provided for in Section 10 of the Base Contract; provided that such calculations shall be at the mid point between the bid price and the offer price.

G. Asset Management Arrangement

The parties agree that the transactions hereunder constitute an "Asset Management Arrangement", as defined by FERC in Order No. 712 (as modified and clarified) and in accordance with FERC's rules and regulations, and that Seller is acting as a defined in 18 CFR 284.8(h)(3).

H. Changes in Law

If the FERC, CFTC or other applicable regulatory body shall implement any change in law, rule, regulation, tariff or practice that is binding on Seller or Buyer and materially and adversely affects such party's ability to perform its obligations hereunder, the parties shall negotiate in good faith an amendment to this Agreement or take other appropriate action the effect of which is to restore each

The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5066

Attachment DIV 1-2

party, as closely as possible, to its same position as prior to such change. If, within sixty (60) Days after the implementation of such change, the parties are unable to agree on such amendment or such other appropriate action, each party will continue to perform its obligations because to the maximum extent against a such as a such its obligations hereunder to the maximum extent possible under the applicable law, rule, regulation, tariff or practice, taking all reasonable steps to mitigate the effect of such change on each other. Seller: Spotlight Energy, LLC Buyer The Narraganset Electric Company d/b/a National Grid Ву:_ Matt Steinberg Name: Name: Jøhn Vaughn CEO /19 Title: Authorized Signatory Title: Date: Date:

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-3

Request:

Reference Exhibit 15, of the 2020/21 Gas Long-Range Supply Plan. Please update Exhibit 15 for any changes in Resources and provide a description of each change.

Response:

Please see Attachment DIV 1-3 for an updated version of Exhibit 15. Changes in Resources from Exhibit 15 filed in the 2020/21 Gas Long-Range Supply Plan (LRP) are outlined below.

- A one-year supply deal at Everett, MA for 5,000 Dth/day with a 20-day call for the 2020/21 heating season is included in Attachment DIV 1-3. Exhibit 15 filed in the 2020/21 LRP, which contemplated the existing supply portfolio, did not include this additional supply deal at Everett. This one-year supply deal is different from the existing multiyear supply deal at Everett (NSB042-16), which was included in the 2020/21 LRP and Attachment DIV 1-3.
- A one-year supply deal at Dracut, MA for 15,000 Dth/day for the 2020/21 heating season is included in Attachment DIV 1-3. The Company will release the Tennessee capacity under an AMA and will have a call option at its city-gate. Exhibit 15 filed in the 2020/21 LRP assumed no supply deal at Dracut and no AMA relating to Tennessee capacity.
- Incremental summer liquid volumes (LNG) of 250,000 Dth for summer 2020/21 and 150,000 Dth for summer 2021/22 are included in Attachment DIV 1-3. Exhibit 15 filed in the 2020/21 LRP assumed no incremental summer liquid volumes. While the Company does not currently have these volumes under contract, they are included in the SENDOUT scenario to prevent the model from conserving LNG during the heating season to meet constraints requiring the tanks to be 100% full at the beginning of the following heating season. Both the 2020/21 LRP and Attachment DIV 1-3 include existing summer liquid volumes totaling 300,040 Dth.
- PNGTS Asset Management Arrangement for the 2020/21 gas year
 - o The Company will release its Union and TransCanada capacity on this path under an AMA, but will maintain the Portland and Tennessee capacity. The Company will not have access to the Canadian capacity shown in Attachment DIV 1-3 during the non-heating season.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-3, page 2

- Dawn capacity path in Ontario, Canada to Tennessee Zone 6 via Iroquois Asset Management Arrangement for the 2020/21 gas year
 - o The Company has included an AMA for the full pipeline path (Union/TransCanada/Iroquois/Tennessee) with an MDQ of 1,000 Dth/day. The Company will not have access to this capacity shown on Attachment DIV 1-3 during the non-heating season.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 1 of 7

		Design Day with Existing Resources				
		2020-2021	2021-2022	2022-2023	2023-2024	<u>2024-2025</u>
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	67 298 11 6	69 305 11 7	71 314 12 7	73 321 12 7	73 322 12 7
Fuel Reimbursement Underground Storage Refill LNG Refill		6 0 0	6 0 0	6 0 0	6 0 0	6 0 0
TOTAL		389	398	410	419	419
<u>RESOURCES</u>						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	29 1 1 1 41 20 0 20 5 11 49 1 41 1 8 9 18 14 29	29 1 1 1 41 0 0 1 20 0 11 49 1 41 1 9 9 18 14 29	29 1 1 1 41 0 0 0 11 49 1 41 1 9 9 18 14 29	29 1 1 41 0 0 0 11 49 1 41 1 9 9 18 0 29	29 1 1 41 0 0 0 11 49 1 41 1 9 9 18 0 29
Liquid for Porta	ables and Refill	0	6	6	0	0
LNG From Sto	orage	91	119	119	1	24
Unserved	Valley Providence Warren Westerly	0 0 0 0 0	0 0 0 0 0	23 6 2 <u>0</u> 31	19 158 2 <u>0</u> 179	19 134 2 <u>0</u> 156
TOTAL		389	398	410	419	419

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 2 of 7

	I	Design H	eating Season	(Nov-Mar) wi	th Existing Re	sources
		2020-2021	2021-2022	2022-2023	2023-2024	<u>2024-2025</u>
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	5,191 22,952 853 495	5,301 23,439 871 505	5,465 24,166 898 521	5,637 24,925 926 537	5,594 24,736 919 533
Fuel Reimbursement Underground Storage Refill LNG Refill		716 0 192	727 0 281	727 0 165	735 0 0	728 0 0
TOTAL		30,398	31,123	31,942	32,761	32,511
RESOURCES						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate	2,497 77 136 5,749 290 0 651 24 1,334 7,197 82 5,535 165 347 1,379 1,210 414	2,759 81 162 5,540 0 0 651 0 1,334 7,206 82 5,754 163 371 1,357 1,186 508	2,796 105 140 6,032 0 0 0 1,334 7,154 82 5,403 161 403 1,379 1,497 508	2,705 109 143 6,105 0 0 0 1,334 7,185 81 5,605 177 460 1,329 1,827 0	2,674 108 102 6,204 0 0 0 1,334 7,031 77 5,576 153 454 1,321 1,796 0
Liquid for Porta	Storage ables and Refill	2,581 192	2,656 286	2,642	2,648	2,650
LNG From Storage		539	804	918	753	753
Unserved	Valley Providence Warren Westerly	0 0 0 0 0	64 159 0 <u>0</u> 223	144 956 3 <u>0</u> 1,102	145 2,149 5 <u>0</u> 2,299	178 2,095 5 <u>0</u> 2,278
TOTAL		30,398	31,123	31,942	32,761	32,511

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 3 of 7

		Design Nor	-Heating Seas	son (Apr-Oct)	with Existing R	esources
		<u>2020-2021</u>	2021-2022	2022-2023	2023-2024	<u>2024-2025</u>
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	2,011 8,892 330 192	2,075 9,174 341 198	2,122 9,383 349 202	2,122 9,381 349 202	2,129 9,413 350 203
Fuel Reimbursement Underground Storage Refill LNG Refill		320 3,916 480	409 4,053 658	471 4,042 887	402 3,986 887	392 3,988 887
TOTAL		16,142	16,907	17,456	17,329	17,362
RESOURCES						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage	21 0 2 3,501 0 0 0	304 62 54 2,969 0 0 0	30 2 2 4,851 0 0 0 0	31 2 2 7,399 0 0 0 0	32 2 7,093 0 0 0 0
TET/AGT	M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	5,902 16 312 17 26 1,397 4,332 0	9,447 28 936 19 54 1,122 1,566 0	9,511 40 870 37 27 985 900 0	6,620 31 317 37 28 759 1,961 0	6,426 9 319 37 29 560 2,712 0 4
Liquid for Porta	ables and Refill	480	150	0	0	0
LNG From Storage		134	134	134	134	134
Unserved	Valley Providence Warren Westerly	0 0 0 0 0	0 0 0 <u>0</u> 0	2 0 0 0 0 2	0 3 0 <u>0</u> 3	0 3 0 <u>0</u> 3
TOTAL		16,142	16,907	17,456	17,329	17,362

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 4 of 7

		Design Annual with Existing Resources				
		2020-2021	2021-2022	2022-2023	2023-2024	<u>2024-2025</u>
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	7,202 31,843 1,184 686	7,376 32,613 1,212 703	7,587 33,549 1,247 723	7,759 34,306 1,275 739	7,723 34,150 1,269 736
Fuel Reimbursement Underground Storage Refill LNG Refill		1,036 3,916 673	1,136 4,053 938	1,198 4,042 1,052	1,138 3,986 887	1,120 3,988 887
TOTAL		46,540	48,030	49,398	50,089	49,873
RESOURCES						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage	2,518 77 138 9,250 290 0 651 24 1,334	3,063 142 217 8,509 0 0 651 0 1,334	2,826 107 142 10,883 0 0 0 1,334	2,736 111 146 13,503 0 0 0 1,334	2,705 110 105 13,297 0 0 0 1,334
TET/AGT	M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	13,099 99 5,847 182 372 2,776 5,542 414 2,582	16,652 110 6,690 182 425 2,479 2,752 508 2,718	16,665 121 6,272 198 430 2,364 2,396 508 2,708	13,806 112 5,923 214 488 2,089 3,788 0 2,651	13,457 85 5,895 190 484 1,881 4,508 0 2,654
Liquid for Porta	ables and Refill	673	436	286	0	0
LNG From Sto	rage	673	938	1,052	887	887
Unserved	Valley Providence Warren Westerly	0 0 0 0 0	64 159 0 <u>0</u> 223	145 956 3 <u>0</u> 1,104	145 2,152 5 <u>0</u> 2,302	178 2,099 5 <u>0</u> 2,281
TOTAL		46,540	48,030	49,398	50,089	49,873

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 5 of 7

	[Cold Snap	Heating Seaso	on (Nov-Mar) v	with Existing R	esources
		2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	4,662 20,873 753 450	4,761 21,315 768 460	4,909 21,978 792 474	5,060 22,656 817 488	5,024 22,495 811 485
Fuel Reimbursement Underground Storage Refill LNG Refill		667 0 192	679 0 211	684 0 116	692 0 0	683 0 0
TOTAL		27,597	28,194	28,952	29,713	29,498
RESOURCES						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage	1,801 52 132 5,116 226 0 639 13 1,334	2,005 57 161 4,908 0 0 651 0 1,334	2,121 84 135 5,734 0 0 0 0 1,334	2,179 89 137 5,760 0 0 0 1,334	2,108 90 86 5,986 0 0 0 1,334
TET/AGT	M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	7,070 82 5,334 146 136 1,379 583 231 2,570	7,093 82 5,625 139 163 1,312 606 256 2,690	7,116 81 4,938 136 259 1,376 986 409 2,673	7,031 76 5,444 160 304 1,237 1,204 0 2,653	6,723 71 5,440 133 304 1,256 1,194 0 2,661
Liquid for Porta	ables and Refill	192	211	212	0	0
LNG From Sto	rage	561	735	869	753	753
Unserved	Valley Providence Warren Westerly	0 0 0 <u>0</u> 0	45 121 1 <u>0</u> 167	128 360 2 <u>0</u> 489	156 1,189 6 <u>0</u> 1,351	195 1,159 6 <u>0</u> 1,359
TOTAL		27,597	28,194	28,952	29,713	29,498

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 6 of 7

		Cold Snap Non-Heating Season (Apr-Oct) with Existing Resources				
		2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	1,856 8,312 300 179	1,916 8,577 309 185	1,959 8,771 316 189	1,959 8,769 316 189	1,965 8,798 317 190
Fuel Reimbursement Underground Storage Refill LNG Refill		309 3,905 503	396 4,064 658	458 4,046 887	390 3,989 887	381 3,997 887
TOTAL		15,365	16,105	16,626	16,498	16,534
RESOURCES						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage	5 0 1 3,240 0 0 0	241 62 48 2,797 0 0 0	15 1 1 4,595 0 0 0 0	15 1 1 7,163 0 0 0 0	16 1 1 6,853 0 0 0
TET/AGT	M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	5,826 16 270 16 12 1,397 3,943 0	9,409 27 841 17 22 1,094 1,224 0 41	9,434 35 789 31 8 945 601 0 39	6,554 24 268 31 8 717 1,581 0 2	6,413 7 268 31 8 524 2,277 0 2
Liquid for Porta	ables and Refill	503	150	0	0	0
LNG From Storage		134	134	134	134	134
Unserved	Valley Providence Warren Westerly	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
TOTAL		15,365	16,105	16,626	16,498	16,534

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-3 Page 7 of 7

		Cold Snap Annual with Existing Resources				
		2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
REQUIREMEN	NTS					
Firm Sendout	Valley Providence Warren Westerly	6,518 29,185 1,052 629	6,676 29,892 1,078 644	6,868 30,749 1,109 663	7,019 31,425 1,133 677	6,989 31,293 1,128 675
Fuel Reimburs Underground S LNG Refill		977 3,905 695	1,075 4,064 869	1,142 4,046 1,003	1,082 3,989 887	1,064 3,997 887
TOTAL		42,962	44,299	45,578	46,211	46,032
<u>RESOURCES</u>						
TGP	Dawn PNGTS Dawn Iroquois Niagara Zone 4 Dracut TGP Citygate Everett Multi Year Everett Swing Storage	1,806 52 133 8,356 226 0 639 13	2,246 118 209 7,705 0 0 651 0 1,334	2,136 85 136 10,328 0 0 0 0	2,194 90 138 12,923 0 0 0 0	2,124 91 87 12,839 0 0 0 0
TET/AGT	M2 Dominion South Point TCO Appalachia Transco Leidy AIM (Ramapo) AIM (Millennium) M3 AGT Citygate Storage	12,896 98 5,604 162 148 2,776 4,525 231 2,571	16,502 108 6,466 155 185 2,405 1,831 256 2,730	16,550 116 5,727 167 267 2,321 1,587 409 2,712	13,585 100 5,712 191 312 1,953 2,785 0 2,654	13,137 77 5,708 164 312 1,780 3,470 0 2,662
Liquid for Porta	ables and Refill	695	361	212	0	0
LNG From Sto	orage	695	869	1,003	887	887
Unserved	Valley Providence Warren Westerly	0 0 0 <u>0</u> 0	45 121 1 <u>0</u> 167	128 360 2 <u>0</u> 489	156 1,189 6 <u>0</u> 1,351	195 1,159 6 <u>0</u> 1,359
TOTAL		42,962	44,299	45,578	46,211	46,032

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-4

Request:

Please explain whether Algonquin or Tennessee has indicated that it will be requiring the Company to address hourly or take station imbalances for the winter of 2020/21. Provide supporting documentation/communications.

Response:

Neither Algonquin nor Tennessee has issued any documentation/communications regarding the need for the Company to address hourly or take station imbalances specific to the winter of 2020/21. However, in previous communications, Algonquin has indicated that the Company and other shippers may be directed to maintain hourly and/or daily take station balances when and if system conditions dictate. The Company reasonably expects that, should near-design day weather conditions arise, the pipelines will look to hold the Company to its contractual limits to minimize imbalances across their systems to ensure reliable service, up to contracted quantities, to the Company and other shippers.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-5

Request:

Please provide a copy of each contract for citygate delivered supplies in effect for the period April 2019 through October 2021.

Response:

See Attachment DIV 1-5 for all executed contracts for citygate delivered supplies in effect for the period April 2019 through October 2021.

Attachment DIV 1-5 contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of Attachment DIV 1-5, subject to a Motion for Protective Treatment.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-5 Page 1 of 3

TRANSACTION CONFIRMATION FOR IMMEDIATE DELIVERY

Letterhead/Logo

Date: September 26, 2019

Transaction Confirmation #: NSB19_24-42-20

This Transaction Confirmation is subject to the Base Contract between Seller, as assignee of ENGIE Gas & LNG LLC and Buyer dated December 19, 2011. The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of receipt unless otherwise specified in the Base Contract.

SELLER:

Constellation LNG, LLC 1310 Point Street, 8th Floor Baltimore, MD 21231 Attn: Contract Administration Phone: 410-470-3500

Fax: 443-213-3558

BUYER:

The Narragansett Electric Company d/b/a National Grid c/o National Grid 100 East Old County Road

Hicksville, New York 11801 Attn: Contract Administration Phone: (516) 545-6068 Fax: (516) 806-4442

Contract Price: Buyer shall pay to Seller a Contract Price, as set forth in the monthly invoice, equal to the sum of the following three components, as applicable for the billing month:

- 1. <u>Commodity Rate</u>. For each MMBtu of Gas delivered to Buyer during the Delivery Period, Buyer shall pay to Seller a rate per MMBtu equal to
- 2. Supply Demand Charge. Additionally, Buyer shall pay a non-refundable annual demand charge payment to Seller equal to for Firm delivery of Gas set forth herein ("Demand Charge"). The Demand Charge due and payable hereunder shall be paid to Seller in monthly installments of Such Demand Charge installments shall be invoiced by Seller on a monthly basis during the Winter Season and paid by Buyer in accordance with Section 7 of the Base Contract.
- 3. Pipeline Transportation Charges: In addition to the Supply Demand Charge, Buyer shall pay Seller for firm transportation charges incurred by Seller to make delivery of the MDQ specified herein to Buyer on Algonquin at the Delivery Points set forth herein, or at other locations agreed by Buyer and Seller. The payments will be invoiced monthly during the term (including any term extension) and calculated as follows: (i) for the months of April through October of each year, the charge for this component of the Contract Price will be equal to

; and (ii) for the months of November through March, the charge for this component of the Contract Price shall be equal to

For the Initial Delivery Period, Buyer shall reimburse Seller for such Algonquin demand charges and subject to Buyer's Condition Precedent, Buyer shall reimburse Seller for such Algonquin demand charges. Such transportation charges shall be invoiced by Seller on a monthly basis and paid by Buyer in accordance with Section 7 of the Base Contract.

The Commodity Rate, Supply Demand Charge and Pipeline Transportation Charges components are hereinafter collectively referred to as the "Contract Price".

Delivery Period:

<u>Initial Delivery Period</u>: Begin: November 1, 2019 End: March 31, 2022 <u>Second Delivery Period</u>: Begin: November 1, 2022 End: March 31, 2024

The Initial Delivery Period and Second Delivery Period collectively referred to as the "Delivery Period" herein.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-5 Page 2 of 3

Performance Obligation and Contract Quantity: Firm Gas service.
Firm (Variable Quantity): On any day during the months of November through March of the Delivery Period, Buyer shall have the right, but not the obligation, to purchase on a Firm basis a "Maximum Daily Quantity" or "MDQ" of Gas not to exceed 14,100 MMBtu/day and a Maximum Seasonal Quantity or "MSQ" of 507,600 MMBtu during the applicable Winter Season. "Winter Season" shall mean the period from November 1 of one year through and inclusive of March 31 of the following calendar year
Delivery Point(s): For Firm delivery service of Gas to Narragansett Gas and Electric Company delivery points on the Algonquin Gas Transmission, LLC ("Algonquin") at a primary firm point at Meter No. 00012 (Warren) in the maximum amount of 1,000 MMBtu/Day; at a secondary firm in-path point with primary delivery point at Meter No. 00018 (Bourne) in the maximum amount of 13,100 MMBtu/Day.
Special Conditions:
Conditions Precedent:
Buyer and Seller: Buyer and Seller are each party to settlement discussions with Algonquin related to the pipeline's cost of service in FERC Docket No. RP19-57-000. If Algonquin and the parties to the case are unable to reach a settlement agreement in the proceeding, or in any Section 4 rate proceeding that is filed by Algonquin, by then either party to this Transaction Confirmation may terminate this Transaction Confirmation without liability for the Second Delivery Period.
Buyer: If Buyer is unable to obtain any input, guidance and/or informal or formal approvals and orders or other authorizations or consents as determined to be acceptable by Buyer, in its commercially reasonable discretion, from the Rhode Island Division of Public Utilities Commission by Rhode Island Division of Public Utilities Commission by Written notice no later than to the third this Transaction Confirmation, without liability for any period after the date such notice is tendered, provided however such notice date shall not be before
Buyer shall have the right to terminate this Transaction Confirmation effective confirmation, without liability for the Second Delivery Period, if Seller has not entered into a negotiated rate agreement or discounted rate agreement with Algonquin for Pipeline Transportation Charges applicable during the Second Delivery Period that is deemed acceptable by Buyer by such termination right to be exercised by written notice to Seller by
Seller: If Seller is unable to obtain a commitment from Exelon's senior management to extend the term of Seller's Algonquin contract No. 511057-R1 at least through upon terms satisfactory to Seller in Seller's sole and absolute discretion by the
Scheduling: All Notices and communications given in connection with Nominations pursuant to Section 4 of the Base Contract may be provided by telephone [or instant messaging]. Buyer shall make all Nominations for deliveries of gas occurring on any weekday, weekend day (Saturday, Sunday and Monday), and any Holiday prior to the Business Day prior to the Day of Gas flow; for purposes herein, "Holiday" shall mean any day that the Intercontinental Exchange ("ICE") designates as a holiday.
Damages: On any Day Buyer nominates a quantity of Gas to at Meter No. 00012 (Warren) in accordance with this Transaction Confirmation and Seller fails to deliver the nominated quantity other than as a result of Force Majeure or the actions or inactions of Buyer, Seller shall reimburse Buyer for each undelivered MMBtu
On any Day Buyer nominates a quantity of Gas to Algonquin Meter No. 00018 (Bourne) in accordance with this Transaction Confirmation and Seller fails to deliver the nominated quantity other than as a result of Force Majeure or the actions or inactions of Buyer, Seller shall reimburse Buyer for each undelivered MMBtu
<u>Dodd-Frank Compliance</u> : The parties agree that for purposes of this Transaction Confirmation and as of the Trade Date each party is a producer, processor, commercial user of, or a merchant handling the commodity that is the subject of the Transaction

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-5 Page 3 of 3

Confirmation and is entering into this Transaction Confirmation solely for the purposes related to its business as such. The parties confirm their intention that if any such commodity option transaction be physically settled, such that if exercised, it results in the sale of a commodity for either immediate or deferred delivery.

Document Conflict. In the event of a conflict between the terms and conditions of the (i) Transaction Confirmation, (ii) Special Provisions, and (iii) Base Contract, the terms and conditions of the documents shall govern in the priority listed in this provision.

<u>Capitalized Terms</u>: Capitalized terms used herein and not otherwise defined shall have the meaning set forth in the Base Contract, as amended, and as supplemented and modified by the Special provisions.

Seller: Constellation LNG, LLC

by.

Date: 9/26/19

Buyer: The Narragan sett Electric Company d/b/a National Grid ()

John V. Vaugh

Title: Authorized Signatory

Date: 10)16/2019

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted Division 1-6

Request:

For the peak day during the 2019/20 winter season, please identify:

- a. The date, average temperature, wind speed, average temperature on the prior day, and HDDs;
- b. Total sendout;
- c. Firm throughput;
- d. FT-1 capacity exempt transport throughput;
- e. FT-1 capacity assigned transport throughput;
- f. FT-2 transport throughput;
- g. Deliveries to the Company on behalf of FT-1 capacity exempt transportation customers;
- h. Deliveries to the Company on behalf of FT-1 and FT-2 capacity assigned customers (separately);
- i. Capacity resource quantity by type assigned to FT-1 and FT-2 capacity assigned customers/suppliers (separately);
- j. Deliveries to the Company by capacity resource;
- k. Gas supply deliveries to the Company by source and price; and
- 1. Delivery and consumption of non-firm load.

Response:

Please see the responses in the chart below:

a.	Gas Day Date	December 19, 2019
a.	Average Temperature	18 oF
a.	Average Wind Speed	11 mph
a.	Average Temperature (prior	24 oF
	gas day)	
a.	HDD	47
b.	Total throughput	313,560 Dth
c.	Firm throughput	313,560 Dth
d.	FT-1 capacity exempt	23,779 Dth
	transport throughput	
e.	FT-1 capacity assigned	18,199 Dth
	transport throughput	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests
Issued on August 19, 2020

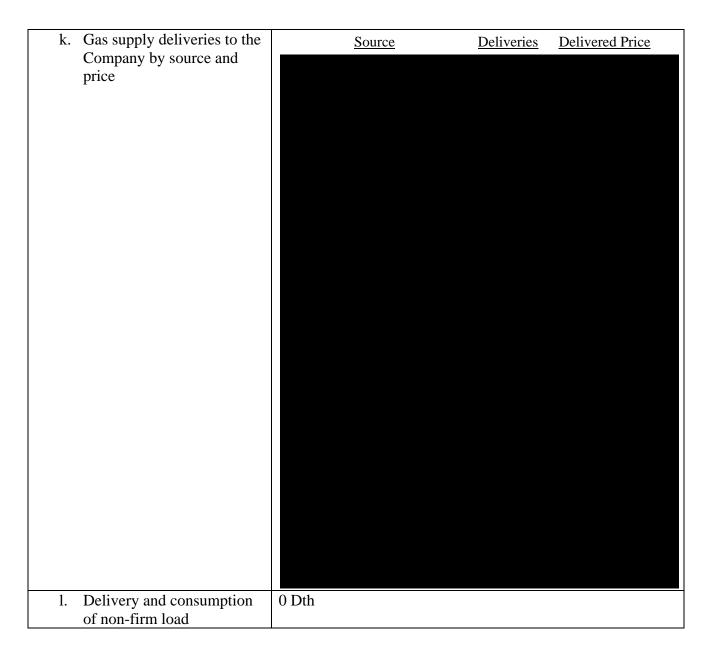
Redacted

Division 1-6, page 2

C FF 2		1 1 11 \	
f. FT-2 transpor	<u> </u>	not metered daily)	
g. Deliveries to on behalf of F exempt transp customers	T-1 capacity by	- ·	a breakdown of FT-1 deliveries pacity-exempt; the marketer only
h. Deliveries to on behalf of I capacity assig customers (se	T-1 and FT-2 To	Total FT-1 deliveries 32,900 Total FT-2 deliveries 47,612	, , ,
i. Capacity reso by type assign and FT-2 cap- customers/sup (separately)	ned to FT-1 F acity assigned F	For December 2019: T-1: 14,089 Dth pipeline T-2: 27,863 Dth pipeline, 4, eaking.	,785 Dth storage, 18,431 Dth
j. Deliveries to by capacity re	esource	Capacity Resource Pipeline Storage Peaking/LNG Total * Includes 971 Dth taken fro Company's Operational Bal Agreement with Algonquin	ancing

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted
Division 1-6, page 3



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-7

Request:

Please provide an explanation and all supporting calculations, workpapers, and databases relied upon to develop the Company's design day total firm throughput and planning load throughput projections for the winter of 2020/21. Include relevant data showing how sales customer, FT-1 capacity exempt transport, FT-1 capacity assigned, and FT-2 capacity assigned transport demands were determined. Include the data in Excel format. Also, identify the actual predictive equations utilized and provide statistical model output and independent variable inputs.

Response:

As described in Section III.C.2 of its Gas Long-Range Resource and Requirements Plan for the forecast Period 2020/21 to 2024/25 ("Long Range Plan") in Docket No. 5043, the Company performs regression analysis, at the wholesale (citygate) level, for its capacity-eligible FT-1, capacity-exempt FT-1, and non-firm customers, in addition to its total throughput. Annually, when it performs this analysis, it relies on the most recent 12 months of daily data.

In the case of the 2020 submission, the twelve-month period was April 1, 2019 through March 31, 2020. By subtracting its daily capacity-eligible FT-1, capacity-exempt FT-1, and non-firm customer volumes from its total daily throughput volumes, the Company can infer the daily volume for the combined Sales and FT-2 capacity-eligible customers. Since these two customer groups are not metered daily, it relies on the ratios of the monthly volumes to infer the amount of daily Sales and daily FT-2 volumes separately. The growth in its retail (burner tip) forecast will inform the volumetric growth in the Sales, capacity-eligible FT-2, capacity-eligible FT-1, capacity-exempt FT-1, and non-firm customer groups.

The input data for the Company's regression analysis is provided herein as Attachment DIV 1-7. The details of the regression equation input data and form applied to these customer groups is described on pages 10-13 of the Long Range Plan. Below are the 2019-20 regression equations and their statistical results used in the Company's current forecast. HDD2 is the Slope1 coefficient, WE2 is the weekend variable, dT2 is the lagged temperature variable, and U1.HDD2 is the Slope2 coefficient.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-7, page 2

Total Throughput Wholesale Regression Equation

```
segmented.lm(obj = test2.lm, seg.Z = ~HDD2, psi = 10)
Estimated Break-Point(s):
   Est. St.Err
 7.518 0.315
Meaningful coefficients of the linear terms:
               Estimate Std. Error t value Pr(>|t|)
(Intercept) 54756.11 872.13 62.784 < 2e-16 ***

    HDD2
    836.00
    102.29
    8.173
    5.31e-15
    ***

    WE2
    -3760.55
    581.75
    -6.464
    3.35e-10
    ***

    dT2
    -1044.08
    64.02
    -16.308
    < 2e-16</td>
    ***

    U1.HDD2
    5573.72
    117.72
    47.349
    NA

                               102.29 8.173 5.31e-15 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 7961 on 357 degrees of freedom
Multiple R-Squared: 0.9867, Adjusted R-squared: 0.9865
FT-1 Wholesale Regression Equation
segmented.lm(obj = test2.lm, seg.Z = ~HDD2, psi = 10)
Estimated Break-Point(s):
   Est. St.Err
 6.278 0.742
Meaningful coefficients of the linear terms:
               Estimate Std. Error t value Pr(>|t|)
(Intercept) 6540.762 81.242 80.510 < 2e-16 ***

HDD2 63.387 9.564 6.628 1.26e-10 ***

WE2 -757.081 50.693 -14.935 < 2e-16 ***

dT2 -38.318 5.557 -6.896 2.44e-11 ***

U1.HDD2 207.781 10.728 19.367 NA
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 693.5 on 357 degrees of freedom
Multiple R-Squared: 0.9549, Adjusted R-squared: 0.9543
Capacity-Exempt Wholesale Regression Equation
segmented.lm(obj = test2.lm, seg.Z = ~HDD2, psi = BP)
```

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-7, page 3

```
Estimated Break-Point(s):
   Est. St.Err
 4.662 0.790
Meaningful coefficients of the linear terms:
               Estimate Std. Error t value Pr(>|t|)
HDD2 45.654 12.265 3.722 0.000229 ***
WE2 -803.535 60.630 -13.253 < 2e-16 ***
dT2 -56.456 6.637 -8.507 4.99e-16 ***
U1.HDD2 231.099 13.485 17.137 NA
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 832 on 357 degrees of freedom
Multiple R-Squared: 0.94, Adjusted R-squared: 0.9391
Non-Firm Wholesale Regression Equation
segmented.lm(obj = test2.lm, seg.Z = ~HDD2, psi = BP)
Estimated Break-Point(s):
   Est. St.Err
35.714 0.408
Meaningful coefficients of the linear terms:
             Estimate Std. Error t value Pr(>|t|)
(Intercept) 4993.787 51.932 96.160 < 2e-16 ***

HDD2 -18.969 2.547 -7.447 7.22e-13 ***

WE2 -180.790 48.404 -3.735 0.000218 ***

dT2 30.898 5.302 5.828 1.26e-08 ***

U1.HDD2 -508.085 37.534 -13.537 NA
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 663.5 on 357 degrees of freedom
Multiple R-Squared: 0.5849, Adjusted R-squared: 0.5791
Sales+FT-2 Capacity-Eligible Regression Equation
segmented.lm(obj = test2.lm, seg.Z = ~HDD2, psi = 10)
Estimated Break-Point(s):
   Est. St.Err
 7.741 0.319
Meaningful coefficients of the linear terms:
              Estimate Std. Error t value Pr(>|t|)
```

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-7, page 4

(Intercept)	31057.98	812.39	38.230	< 2e-16	* * *	
HDD2	753.29	95.29	7.906	3.36e-14	***	
WE2	-2027.74	541.90	-3.742	0.000213	***	
dT2	-968.80	59.64	-16.245	< 2e-16	***	
U1.HDD2	5155.37	109.65	47.015	NA		
Signif. code	es: 0 '***/	0.001 '	**' 0.01	'*' 0.05	1.'0.	.1 ' ' 1

Residual standard error: 7415 on 357 degrees of freedom Multiple R-Squared: 0.9862, Adjusted R-squared: 0.986

								Pa
DATE	HDD_REAL	TSO	S_FT2	FT1	FIRM_CE	NFS	dT	Weekend
4/1/2014	23	141496	107176	12980	17399	3942	-4	0
4/2/2014	20	138585	105795	12352	16670	3768	-5	0
4/3/2014	20	123377	91821	11667	16054	3835	-2	0
4/4/2014	23	136762	105572	11818	15333	4040	3	1
4/5/2014	22	137165	108341	10783	14050	3992	1	2
4/6/2014	18	119181	90908	10157	14352	3764	-5	1
4/7/2014	17	113061	83855	10390	15072	3745	-3	0
4/8/2014	14	105200	76787	10026	14671	3716	-4	0
4/9/2014	18	117321	86907	11318	15251	3846	3	0
4/10/2014	14	105478	77449	10182	14115	3732	-2	0
4/11/2014	9	72645	49853	7973	11756	3063	-7	1
4/12/2014	9	69305	48459	7047	11000	2799	-3	2
4/13/2014	6	70972	49272	7298	11540	2862	-3	1
4/14/2014	2	63156	40375	7803	12340	2638	-6	0
4/15/2014	16	99965	71283	10322	14684	3676	12	0
4/16/2014	27	158913	123568	13489	17364	4493	18	0
4/17/2014	28	159169	124827	13265	16527	4550	7	0
4/18/2014	22	127347	98637	11002	13840	3869	-6	1
4/19/2014	13	90517	66998	8331	12025	3162	-12	2
4/20/2014	21	105471	78656	9510	13599	3706	4	1
4/21/2014	15	85984	59675	9401	13347	3561	-2	0
4/22/2014	9	70153	45800	8639	12491	3223	-9	0
4/23/2014	17	110595	82180	10692	13913	3810	5	0
4/24/2014	13	102757	75247	10157	13370	3984	0	0
4/25/2014	15	85693	61079	8864	12335	3414	0	1
4/26/2014	19	107852	83523	8937	12022	3370	5	2
4/27/2014	18	111602	84606	9732	13658	3607	1	1
4/28/2014	16	100627	72162	10507	14052	3907	-3	0
4/29/2014	22	136534	104723	12048	15647	4117	5	0
4/30/2014	16	121730	92272	11061	14739	3658	-3	0
5/1/2014	9	74196	49724	8734	12040	3698	-10	0
5/2/2014	8	69990	46611	7852	11775	3752	-5	1
5/3/2014	6	60155	40588	6536	9913	3117	-3	2
5/4/2014	9	72698	50314	7566	11154	3664	2	1
5/5/2014	9	73750	49894	8717	11009	4129	2	0
5/6/2014	9	76292	52056	8964	11055	4217	0	0
5/7/2014	9	69892	46073	8447	11022	4349	0	0
5/8/2014	8	65136	42079	8130	11283	3644	-1	0
5/9/2014	7	62335	41341	7217	10894	2882	-2	1
5/10/2014	-3	48344	31615	5552	9281	1897	-11	2
5/11/2014	-3	51890	32449	6004	9926	3511	-5	1
5/12/2014	-2	53459	31484	7019	11161	3796	1	0
5/13/2014	13		40686	8112	12035	3613	16	0
5/14/2014	5	55810	33636	7274	11171	3730	-1	0

								Attachment DIV	
5/15/2014	0	52905	30866	6821	10758	4460	-9	Page 2	01 49
5/16/2014	3	50596	29915	6326	10738	3952	-9 1	0 1	
5/10/2014	2	49422	31525	5381	9219	3297	1	2	
5/17/2014 5/18/2014	5						3		
5/18/2014 5/19/2014	5 5	54181 57091	34688 35292	5698 6655	10358 11477	3437 3667	2	1 0	
							1		
5/20/2014	6	56971	34250	7048	11717	3957		0	
5/21/2014	5	54047	31945	6943	11297	3861	-1	0	
5/22/2014	9	57834	35522	7108	11293	3911	4	0	
5/23/2014	7	53506	33233	6609	10429	3236	0	1	
5/24/2014	8	50238	33383	5652	8462	2741	0	2	
5/25/2014	7	48013	31544	5285	8386	2798	-1	1	
5/26/2014	-6	48910	30558	5181	9575	3596	-14	0	
5/27/2014	5	53864	32561	6510	11131	3662	5 1 -	0	
5/28/2014	16	77025	53048	8424	11530	4023	17	0	
5/29/2014	11	62511	39424	7712	11375	3999	1	0	
5/30/2014	8	53964	33478	6703	10321	3462	-6	1	
5/31/2014	7	53998	35935	5734	9216	3114	-3	2	
6/1/2014	1	49903	31545	5449	9788	3122	-7	1	
6/2/2014	-2	49977	29088	6325	10751	3813	-6	0	
6/3/2014	1	50527	29194	6415	10865	4053	2	0	
6/4/2014	2	49765	28749	6443	10474	4100	3	0	
6/5/2014	5	53799	32370	6643	10490	4297	4	0	
6/6/2014	-3	47394	27988	5757	9895	3754	-7	1	
6/7/2014	-7	42710	26411	4547	8733	3020	-8	2	
6/8/2014	-9	45006	27135	4960	9630	3281	-4	1	
6/9/2014	-2	48531	28161	6210	10721	3439	6	0	
6/10/2014	0	49717	28624	6452	10811	3830	6	0	
6/11/2014	1	50041	28835	6317	10694	4196	2	0	
6/12/2014	0	49196	28424	6341	10465	3966	-1	0	
6/13/2014	-1	46732	26961	5776	10336	3659	-2	1	
6/14/2014	-1	44137	27363	4785	8822	3166	-1	2	
6/15/2014	-5	45772	28146	5108	9209	3310	-4	1	
6/16/2014	-4	48177	27599	5984	10682	3912	-1	0	
6/17/2014	-8	48120	26820	5905	11034	4361	-4	0	
6/18/2014	-12	46753	25701	5761	10988	4303	-6	0	
6/19/2014	-4	48134	27459	5937	10501	4237	6	0	
6/20/2014	-2	46034	27091	5469	9773	3702	6	1	
6/21/2014	-1	41870	25827	4400	8646	2998	2	2	
6/22/2014	-1	44510	26937	4902	9461	3211	1	1	
6/23/2014	-1	47713	27315	6063	10806	3530	0	0	
6/24/2014	-6	47026	26674	6063	10424	3865	-5	0	
6/25/2014	-11	45695	25622	5802	10288	3983	-8	0	
6/26/2014	-4	47258	26584	5934	10442	4299	5	0	
6/27/2014	-4	44839	26056	5430	9641	3712	4	1	
6/28/2014	-4	40153	24451	4546	8306	2850	0	2	

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6/29/2014	-7	41502	24769	4697	8915	3122	-3	1
6/30/2014	-11	43156	25099	5069	9073	3915	-6	0
7/1/2014	-13	43194	24431	5082	8950	4732	-4	0
7/2/2014	-15	42709	23949	5040	8992	4728	-3	0
7/3/2014	-12	40933	23501	4584	8469	4379	2	0
7/4/2014	-1	40147	23721	4220	8628	3578	13	1
7/5/2014	-7	39040	23577	4129	8258	3076	-1	2
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8/13/2014	-2	48038	25458	6186	12682	3712	6	0	
8/14/2014	-2	47837	25727	6132	12097	3882	3	0	
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8/21/2014	-5	47879	25529	5929	12195	4226	-2	0	
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Page 6 of 49

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2/7/2015	37	240354	198326	15091	21643	, 5295	-11	2	
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2,0,2013	41	2/320/	22//01	10344	23732	31/0	- ∓	1	

Page 8 of 49

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2/9/2015	46	294389	249852	18867	25661	9	7	0
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3/29/2015	29	190421	151318	13623	20824	4657	-2	1
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3/31/2015	25	166552	127599	13407	21182	4364	-2	0
4/1/2015	28	176040	136684	14078	20788	4491	3	0
4/2/2015	11	118559	86335	10818	16655	4752	-16	0
4/3/2015	13	111556	81896	9536	15471	4653	-7	1
4/4/2015	23	146763	113982	10818	16814	5149	11	2
4/5/2015	24	160664	125480	11869	18045	5270	6	1
4/6/2015	19	130690	95914	11690	18015	5071	-5	0
4/7/2015	25	173051	134619	13516	19323	5593	4	0
4/8/2015	24	180750	141663	14136	20090	4862	2	0
4/9/2015	25	183777	143828	14012	20133	5804	1	0
4/10/2015	15	125058	93130	10680	16382	4866	-10	1
4/11/2015	19	117133	86489	9365	16317	4962	-1	2
4/12/2015	14	100026	70665	8933	15528	4899	-3	1
4/13/2015	9	83661	54920	9157	14651	4933	-8	0
4/14/2015	7	84044	56023	8905	14195	4921	-5	0
4/15/2015	13	86664	57497	9265	14906	4997	5	0
4/16/2015	15	93926	64320	9439	15037	5130	5	0
4/17/2015	9	84213	58060	8189	13436	4529	-5	1
4/18/2015	5	69995	45717	6790	13087	4401	-7	2
4/19/2015	15	95359	66359	8655	15257	5088	8	1
4/20/2015	12	105837	75498	9810	15799	4731	2	0
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4/27/2015	14	98322	68497	10453	15264	4109	1	0
4/28/2015	8	84714	56803	9502	14373	4037	-5	0
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4/30/2015	15	95376	66314	9951	14954	4157	4	0
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5/6/2015	6	63154	37728	7854	12838	4734	7	0
5/7/2015	0	57928	33097	7271	12924	4636	-4	0
5/8/2015	8	58400	34219	7125	12283	4773	5	1
5/9/2015	4	52171	30953	5528	11250	4440	0	2
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Page 10 of 49

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5/10/2015	-9	51426	29170	5750	12195	4311	-15	1
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5/14/2015	6	59694	34742	7393	12988	4571	5	0
5/15/2015	3	53735	30667	6641	12367	4060	-3	1
5/16/2015	5	50567	30647	5553	11166	3201	1	2
5/17/2015	-1	51652	30191	5815	12167	3479	-5	1
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5/20/2015	10	63634	38371	7906	13089	4268	4	0
5/21/2015	7	60116	35494	7574	12742	4306	-1	0
5/22/2015	5	57812	33669	7021	12696	4426	-4	1
5/23/2015	8	57845	35630	6175	11768	4272	2	2
5/24/2015	-2	48639	28008	5165	11190	4276	-9	1
5/25/2015	-3	51639	29597	5722	12338	3982	-6	0
5/26/2015	-6	57936	33962	6868	12947	4159	-4	0
5/27/2015	-5	52797	28665	6720	13004	4408	-1	0
5/28/2015	-5	52810	28399	6933	12908	4570	1	0
5/29/2015	-2	49194	26513	6217	12137	4327	3	1
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6/2/2015	15	83839	56574	8612	14209	4445	3	0
6/3/2015	10	64582	39042	7868	13175	4497	-6	0
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6/5/2015	3	52124	28514	6612	12428	4570	-6	1
6/6/2015	2	50817	29163	5498	11430	4727	-4	2
6/7/2015	3	53085	30862	5928	12081	4214	1	1
6/8/2015	-2	52856	29138	6850	13106	3762	-5	0
6/9/2015	-2	52812	28725	7061	13070	3957	-3	0
6/10/2015	-7	51773	27825	6774	12851	4324	-5	0
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6/14/2015	-3	46990	25732	5327	11998	3933	6	1
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6/16/2015	-5	52244	27375	6860	13353	4656	-6	0
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6/18/2015	-1	51451	27426	6826	12680	4519	1	0
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6/20/2015	-3	44504	24737	4963	10629	4175	1	2
6/21/2015	-10	46881	26081	5359	11151	4290	-5	1
6/22/2015	-11	47580	25439	6542	11957	3642	-5	0
6/23/2015	-10	47338	25603	6583	11822	3330	1	0

Page 11 of 49

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6/24/2015	-9	48892	26222	6611	11858	4201	2	0
6/25/2015	-7	47807	25377	6582	11757	4091	3	0
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6/28/2015	6	49727	28093	5628	11901	4105	6	1
6/29/2015	-3	50057	26999	6380	12333	4346	-7	0
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7/2/2015	-7	47163	25108	5735	12203	4117	1	0
7/3/2015	-5	44549	24364	5066	11157	3962	3	1
7/4/2015	-3	42524	23118	4583	10696	4127	3	2
7/5/2015	-9	44414	23942	4940	11649	3883	-5	1
7/6/2015	-9	46321	24583	5669	12503	3566	-3	0
7/7/2015	-12	47455	25573	5777	12149	3956	-3	0
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7/25/2015	-5	44806	22906	4880	11769	5251	1	2
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8/6/2015	-7	48727	24495	6409	13125	4699	3	0
8/7/2015	-5	46609	23501	5726	12592	4791	3	1

Page 12 of 49

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22997	4730	11315	5008	1	2
23718	5077	11572	4240	3	1
23614	5790	12635	3357	-4	0
24670	6517	13418	4210	-2	0
24445	6454	13408	4569	-3	0
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23435	6142	12263	4019	1	0
22534	5616	12293	4023	0	1
21903	4551	11288	4350	3	2
23197	5092	11959	4281	3	1
24364	6060	12821	4295	-1	0
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22701	4481	11286	4528	-3	2
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21488	4530	10794	3972	-3	1
23520	4971	12224	4092	-11	0
27662	6243	13200	5155	-7	0
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22556	4893	10945	5575	-2	2
24969	5506	11523	5076	2	1
26233	6762	11729	4231	2	0
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24314	6251	11919	4470	-7	0
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27110					
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22989	6458 6158 5649	11966 11713 11956	5020 5220 4754	-2 -2 2	0 0 1
	24364 28885 24194 24340 24160 22701 23190 22643 22590 27868 23338 22524 21488 23520 27662 25369 22737 23511 22556 24969 26233	24364 6060 28885 6143 24194 6106 24340 5949 24160 5489 22701 4481 23190 4830 22643 6082 22590 6371 22920 6195 27868 6158 23338 5701 22524 4830 21488 4530 23520 4971 27662 6243 25369 6267 22737 6390 23511 6012 22556 4893 24969 5506 26233 6762	24364 6060 12821 28885 6143 12640 24194 6106 12906 24340 5949 12710 24160 5489 12397 22701 4481 11286 23190 4830 12093 22643 6082 13057 22590 6371 13037 22920 6195 13279 27868 6158 12698 23338 5701 11920 22524 4830 10902 21488 4530 10794 23520 4971 12224 27662 6243 13200 25369 6267 13118 22737 6390 13202 23511 6012 11841 22556 4893 10945 24969 5506 11523 26233 6762 11729	24364 6060 12821 4295 28885 6143 12640 4905 24194 6106 12906 5065 24340 5949 12710 4978 24160 5489 12397 4836 22701 4481 11286 4528 23190 4830 12093 4183 22643 6082 13057 4152 22590 6371 13037 4905 22920 6195 13279 4930 27868 6158 12698 4566 23338 5701 11920 3690 22524 4830 10902 4049 21488 4530 10794 3972 23520 4971 12224 4092 27662 6243 13200 5155 25369 6267 13118 5013 22737 6390 13202 4897 23511 6012 11841 5700 22556 4893 10945 5575	24364 6060 12821 4295 -1 28885 6143 12640 4905 -4 24194 6106 12906 5065 3 24340 5949 12710 4978 4 24160 5489 12397 4836 2 22701 4481 11286 4528 -3 23190 4830 12093 4183 -7 22643 6082 13057 4152 -3 22590 6371 13037 4905 5 22920 6195 13279 4930 -2 27868 6158 12698 4566 -3 23338 5701 11920 3690 11 22524 4830 10902 4049 6 21488 4530 10794 3972 -3 23520 4971 12224 4092 -11 27662 6243 13200 5155 -7 25369 6267 13118 5013 1 <

Page	13	of 49
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9/22/2015	3	50732	26324	6714	13056	4638	2	0
9/23/2015	2	51305	26798	6636	13067	4804	-1	0
9/24/2015	1	50112	26248	6523	12537	4804	-2	0
9/25/2015	5	54093	30499	6223	12240	5131	4	1
9/26/2015	10	51789	29621	5303	11621	5244	7	2
9/27/2015	5	51040	28739	5537	12104	4660	-3	1
9/28/2015	-4	50473	26849	6574	12897	4153	-12	0
9/29/2015	2	53715	30364	6475	12975	3901	2	0
9/30/2015	1	55136	31023	6812	12736	4566	2	0
10/1/2015	12	61625	35764	7705	13244	4913	11	0
10/2/2015	15	77404	50966	8155	13705	4578	9	1
10/3/2015	12	77544	53357	7189	12715	4284	-2	2
10/4/2015	12	73307	48396	7459	13152	4301	-2	1
10/5/2015	11	73662	47157	8415	13842	4248	-1	0
10/6/2015	7	63917	38224	8103	12973	4617	-5	0
10/7/2015	3	60116	34642	7833	12733	4908	-6	0
10/8/2015	7	60210	35100	7636	12688	4786	2	0
10/9/2015	4	57552	33095	7049	12594	4813	-1	1
10/10/2015	13	64514	41536	6445	12205	4328	8	2
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10/13/2015	2	56307	30679	7457	13635	4536	-5	0
10/14/2015	9	67207	40016	8326	14310	4556	6	0
10/15/2015	11	73445	45770	8296	14545	4835	6	0
10/16/2015	14	80216	51848	8340	14887	5141	4	1
10/17/2015	21	102610	74142	8393	14975	5100	9	2
10/18/2015	28	146507	112794	10840	17416	5458	11	1
10/19/2015	18	125512	91680	11422	16827	5583	-7	0
10/20/2015	5	69895	42625	8255	14006	5009	-18	0
10/21/2015	4	63329	36677	8074	13837	4740	-8	0
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11/2/2015	14	94351	66354	9121	15182	3694	1	0
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11/4/2015	10	76032	49778	8048	14315	3891	-1	0
11/5/2015	0	60138	35506	7140	13457	4035	-9	0

Page 14 of 49

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11/6/2015	2	57734	33947	6696	13222	3869	-3	1
11/7/2015	13	80036	56259	6999	13496	3282	12	2
11/8/2015	19	109694	81282	8858	15561	3994	12	1
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11/10/2015	14	108100	79099	9419	15499	4084	-4	0
11/11/2015	17	115864	85447	9924	16140	4353	2	0
11/12/2015	12	102114	72300	9809	15958	4047	-4	0
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11/15/2015	15	110222	81629	9104	15693	3796	-5	1
11/16/2015	18	120829	88663	10549	17198	4418	-2	0
11/17/2015	29	166546	129446	12680	18938	5482	13	0
11/18/2015	17	134373	101428	11193	16938	4814	-7	0
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11/21/2015	23	129878	100070	9810	15927	4071	11	2
11/22/2015	23	143681	110654	10764	17599	4663	3	1
11/23/2015	33	197378	156053	14312	20991	6022	10	0
11/24/2015	31	194520	154389	14002	20438	5692	3	0
11/25/2015	24	155365	122721	11125	17049	4471	-8	0
11/26/2015	17	105388	79396	7936	14429	3627	-11	0
11/27/2015	9	81573	57167	7752	13551	3102	-12	1
11/28/2015	21	120872	93104	9159	15003	3606	8	2
11/29/2015	28	168549	133630	11953	18452	4514	13	1
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12/3/2015	23	153268	117178	13226	18283	4581	6	0
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12/5/2015	25	144283	113626	10733	16359	3566	2	2
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12/7/2015	19	136172	103122	12071	16913	4066	-5	0
12/8/2015	26	166669	130003	13682	18793	4191	5	0
12/9/2015	19	140828	107720	12155	17149	3804	-4	0
12/10/2015	16	105806	76836	10673	14717	3581	-7	0
12/11/2015	14	100917	73623	9368	14539	3387	-4	1
12/12/2015	12	86259	62104	7735	13358	3062	-3	2
12/13/2015	15	103413	76094	9027	15031	3262	2	1
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12/15/2015	15	108390	77798	10855	16178	3559	4	0
12/16/2015	22	141300	106873	12567	17845	4015	11	0
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12/19/2015	31	188613	153329	12589	18337	4359	12	2
12/20/2015	28	178532	143410	12344	18483	4295	0	1

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

Attachment DIV 1-7
Page 15 of 49

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12/21/2015	12	121351	90428	10787	16218	3918	-18	0
12/22/2015	11	97205	68894	9719	14869	3723	-9	0
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12/30/2015	30	193621	155937	13719	19045	4920	-3	0
12/31/2015	25	156746	124193	11704	16830	4020	-7	0
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1/10/2016	16	130493	100347	10520	15861	3766	-8	1
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1/14/2016	37	239128	196605	16927	20922	4674	-1	0
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1/17/2016	35	217562	178702	14786	19803	4270	9	1
1/18/2016	44	285217	241752	19417	24046	3	14	0
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1/20/2016	38	250394	209563	18175	22655	1	-5	0
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1/22/2016	36	240725	202507	16741	21476	1	-3	1
1/23/2016	40	262710	219260	16221	21586	5643	3	2
1/24/2016	35	230914	189535	15505	20662	5212	-3	1
1/25/2016	34	215264	174045	15878	20248	5093	-4	0
1/26/2016	20	159906	124749	13011	17997	4150	-15	0
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1/28/2016	30	188779	150870	14545	18712	4653	5	0
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1/30/2016	26	175886	142135	11874	17720	4157	-4	2
1/31/2016	18	135037	104583	10446	16371	3638	-10	1
2/1/2016	18	134196	101778	11646	16907	3865	-4	0
2/2/2016	25	158819	123999	12727	18011	4082	7	0
2/3/2016	11	121994	91826	10725	15910	3533	-11	0

Page 16 of 49	
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2/4/2016	21	138610	105355	12052	17189	4014	3	0
2/5/2016	39	235729	193204	15816	21281	5428	23	1
2/6/2016	34	207532	169746	13546	19421	4819	4	2
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2/8/2016	44	274213	226263	18714	23560	5676	13	0
2/9/2016	39	243165	199101	17577	22138	4350	3	0
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2/13/2016	62	363592	316805	21231	25548	8	15	2
2/14/2016	59	368125	320818	21384	25913	10	6	1
2/15/2016	35	266967	226562	17394	23009	2	-26	0
2/16/2016	21	160532	126997	13179	18593	1764	-26	0
2/17/2016	30	194462	154781	14988	20320	4372	2	0
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2/19/2016	27	192926	154785	14222	19717	4203	-7	1
2/20/2016	16	129471	100176	9999	15869	3428	-16	2
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3/5/2016	33	199891	163422	13287	18801	4382	-3	2
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3/19/2016	28	165965	133646	11450	16628	4241	8	2
3/20/2016	31	180656	145268	12759	18140	4489	5	1
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Page 18 of 49

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5/6/2016	15	96906	69287	9453	14434	3732	-3	1
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5/9/2016	8	78347	51178	9268	14585	3317	-4	0
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5/12/2016	5	58987	34518	7539	13168	3763	1	0
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5/16/2016	11	85160	57950	9199	14088	3923	2	0
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6/18/2016	-4	43905	25263	4935	10870	2837	0	2

Page 19 of 49

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6/20/2016	-5	47454	25516	6736	12692	2511	-3	0
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8/2/2016	-3	48788	25596	6942	12969	3281	5	0

Page 20 of 49

								Page 2
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8/15/2016	-15	50256	27991	6188	12866	3211	3	0
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8/17/2016	-10	47146	23695	6742	12766	3944	6	0
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8/20/2016	-9	42061	21539	4731	10940	4852	4	2
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8/22/2016	-4	46444	23868	6512	12473	3591	6	0
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9/16/2016	4	49221	25828	6553	11946	4894	5	1

Page 22 of 49

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12/14/2016	32	208181	170208	15783	20329	1860	4	0
12/15/2016	48	308147	262903	20327	24893	24	18	0

Page 23 of 49

								1 450 2
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12/17/2016	25	192690	158104	12514	18794	3278	-21	2
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1/4/2017	27	184549	146773	14293	18966	4518	3	0
1/5/2017	36	229990	188242	16666	20563	4519	12	0
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1/10/2017	24	200051	161946	14232	19766	4106	-27	0
1/11/2017	17	133961	102177	10986	16947	3851	-21	0
1/12/2017	12	111756	82809	9900	15331	3717	-9	0
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1/14/2017	36	226335	188339	13798	20312	3886	14	2
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1/16/2017	30	206867	168387	14712	20333	3435	-7	0
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1/19/2017	25	169649	134114	12833	18522	4180	-2	0
1/20/2017	25	164371	130481	11981	17876	4034	-2	1
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1/22/2017	23	158434	125502	11230	17778	3924	-1	1
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1/25/2017	25	172616	137181	13455	18799	3181	-1	0
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1/29/2017	33	208133	172156	13838	19704	2436	5	1

Page 24 of 49

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1/31/2017	38	242574	200796	16879	22156	2743	3	0
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2/5/2017	28	201236	164226	13083	19436	4491	-9	1
2/6/2017	31	203102	163621	14427	20413	4641	-1	0
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2/18/2017	21	152893	122225	10303	16576	3790	-14	2
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3/15/2017	41	265702	224736	18182	22784	0	5	0

Page 25 of 49

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3/17/2017	31	200611	166102	14357	20151	0	-7	1
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4/28/2017	-1	55176	32481	6778	12200	3718	8	1
4/29/2017	-5	52234	31838	5540	10867	3989	8	2

Page 26 of 49

								Page .
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								Page 27	
6/14/2017	0	50019	27539	7234	11832	3414	-18	0 0	01 49
6/15/2017	1	50877	27339	7543	12206	3252	-10	0	
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	-7 -3	49439	26271	7119	12250	3799	-s -5	0	
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6/27/2017	-1 -5	51803 50334	27503 26520	7177 6776	12732 12567	4391 4470	-4 3	0 0	
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6/29/2017	-6 10	50348	26466	6588	12762	4533	3	0	
6/30/2017	-10	47320	24983	5370	12055	4913	5	1	
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7/28/2017	-8	47101	24655	5935	11924	4587	4	1	

Page 28 of 49

7/20/2017	1	46272	25516	F211	10672	4872	0	າ
7/29/2017 7/30/2017	1 -4	46272 47029	25516 25929	5211 5488	10672 11672	4872 3940	-8 1	2 1
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Page 29 of 49

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9/20/2017	-5	49163	25745	7374	11099	4945	3	0
9/21/2017	-1	50610	27558	7741	10540	4772	-3	0
9/22/2017	3	50716	28466	6926	10116	5209	-6	1
9/23/2017	-4	45695	25496	5520	9208	5472	5	2
9/24/2017	-8	47250	26644	5737	10086	4784	8	1
9/25/2017	-8	53023	31160	7051	10851	3961	2	0
9/26/2017	-6	53219	31212	7212	10874	3921	-2	0
9/27/2017	-12	53634	30652	7009	11435	4537	5	0
9/28/2017	0	49804	26962	7490	11189	4163	-9	0
9/29/2017	7	50129	28455	6988	10350	4337	-13	1
9/30/2017	13	56994	36386	6358	9954	4297	-10	2
10/1/2017	8	58013	36426	6556	11012	4019	2	1
10/2/2017	7	58511	34870	7858	11729	4055	4	0
10/3/2017	8	59435	35195	7763	12024	4453	-1	0
10/4/2017	-2	53173	29272	7217	12156	4529	10	0
10/5/2017	-7	51261	27465	6980	12271	4545	10	0
10/6/2017	-2	48151	26363	6324	11263	4201	-3	1
10/7/2017	-6	44563	24801	5054	10412	4296	2	2
10/8/2017	-7	45270	25496	5010	10842	3922	3	1
10/9/2017	-7	55983	34253	6155	11790	3786	1	0
10/10/2017	-2	56375	32781	7073	12305	4216	-5	0
10/11/2017	3	54763	30115	7661	12673	4314	-8	0
10/12/2017	14	69301	43067	8611	13022	4601	-14	0
10/13/2017	5	58151	34273	7510	12025	4343	4	1
10/14/2017	2	50788	29821	5901	10611	4455	8	2
10/15/2017	-3	55239	33484	6337	10994	4424	7	1
10/16/2017	16	78840	52730	9464	12216	4430	-17	0
10/17/2017	14	84233	57183	9531	12744	4776	-8	0
10/18/2017	6	66040	41119	8217	12026	4678	9	0
10/19/2017	3	59609	35552	7917	11640	4500	7	0
10/20/2017	6	60523	36185	7541	12129	4669	-2	1
10/21/2017	5	54935	33863	5895	10752	4425	-1	2
10/22/2017	4	57393	34286	6651	12170	4287	2	1
10/23/2017	-2	55134	30636	7566	12648	4284	7	0
10/24/2017	-4	56837	33220	6968	12918	3730	5	0
10/25/2017	3	54612	30309	7595	12916	3792	-6	0
10/26/2017	13	75077	47633	8942	14042	4461	-14	0

Page 30 of 49

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10/27/2017	13	79677	52634	8710	13251	5082	-5	1
10/28/2017	3	58290	36235	6430	11064	4562	10	2
10/29/2017	1	59176	36804	5907	12110	4355	7	1
10/30/2017	13	80650	53773	8347	13793	4737	-11	0
10/31/2017	18	102240	71720	9976	15485	5060	-11	0
11/1/2017	8	95402	66677	9730	14541	4454	8	0
11/2/2017	2	62549	36875	8428	13042	4204	11	0
11/3/2017	6	68447	42201	8490	13311	4446	-1	1
11/4/2017	16	96058	69148	8425	13489	4996	-12	2
11/5/2017	3	67637	43540	7101	12454	4542	8	1
11/6/2017	10	77485	50116	8679	14034	4656	-1	0
11/7/2017	22	127441	94217	11213	16682	5329	-16	0
11/8/2017	27	164337	126666	13597	18392	5683	-11	0
11/9/2017	19	131733	97950	12149	16392	5242	6	0
11/10/2017	37	217797	177254	14778	20102	5663	-14	1
11/11/2017	34	206301	168778	13203	19102	5218	-6	2
11/12/2017	26	170746	135669	12164	17872	5042	10	1
11/13/2017	26	177919	139764	13704	18907	5544	4	0
11/14/2017	26	178114	139989	13996	19054	5075	0	0
11/15/2017	22	156254	120648	13169	17802	4636	4	0
11/16/2017	21	154280	119182	12844	17985	4269	3	0
11/17/2017	29	184497	146479	13778	19080	5161	-8	1
11/18/2017	11	115365	88370	8791	14740	3465	14	2
11/19/2017	23	153749	120022	11755	17501	4470	-3	1
11/20/2017	23	173628	136587	13521	18790	4729	-6	0
11/21/2017	12	110866	80758	10280	15584	4244	11	0
11/22/2017	24	149811	116934	11345	17077	4455	-7	0
11/23/2017	30	171442	137880	11414	17557	4592	-12	0
11/24/2017	24	149907	118989	10557	16345	4016	3	1
11/25/2017	15	109316	82938	8511	14382	3485	12	2
11/26/2017	26	163245	129433	11871	17503	4438	-7	1
11/27/2017	30	195118	155284	14808	19922	5104	-10	0
11/28/2017	20	159124	123983	12990	17894	4258	8	0
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11/30/2017	20	146262	112149	12340	17431	4342	1	0
12/1/2017	23	153202	118899	12475	17616	4213	-3	1
12/2/2017	27	166719	133657	11512	17288	4262	-6	2
12/3/2017	24	164577	130692	11899	17538	4448	1	1
12/4/2017	24	161736	125773	13429	18140	4394	2	0
12/5/2017	10	117311	86310	10935	16202	3864	14	0
12/6/2017	26	168490	130813	14009	18822	4846	-9	0
12/7/2017	28	186464	147682	14269	19548	4965	-10	0
12/8/2017	28	187403	149189	13837	19646	4731	-1	1
12/9/2017	33	205158	167578	13317	19585	4678	-5	2
12/10/2017	30	199537	161454	13775	19669	4639	1	1

Page 31 of 49

								Page 3
12/11/2017	29	197268	157454	15081	20022	4711	3	0
12/12/2017	30	202836	163590	15215	20113	3917	-1	0
12/13/2017	41	272268	230841	18519	22909	0	-12	0
12/14/2017	45	278721	236702	18668	23351	0	-10	0
12/15/2017	42	265926	223103	17442	22452	2928	1	1
12/16/2017	39	251094	209284	15537	21066	5207	5	2
12/17/2017	37	246731	204219	15762	21532	5218	4	1
12/18/2017	28	206515	167185	14864	20002	4463	10	0
12/19/2017	19	158757	124311	12709	17797	3940	14	0
12/20/2017	31	214027	175125	15176	20031	3695	-8	0
12/21/2017	34	223823	183828	15561	20694	3740	-9	0
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12/23/2017	25	184730	150766	12453	17377	4134	9	2
12/24/2017	29	191248	155990	12560	18228	4470	1	1
12/25/2017	36	232354	192869	14349	20197	4939	-9	0
12/26/2017	45	284870	243951	18238	20503	2179	-13	0
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12/29/2017	53	345768	300726	20561	24481	0	0	1
12/30/2017	50	320024	277618	18476	23930	0	5	2
12/31/2017	58	361735	316837	19755	25143	0	-7	1
1/1/2018	56	366533	320211	20354	25968	0	-2	0
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1/3/2018	41	284428	243013	18884	22531	0	11	0
1/4/2018	42	300004	257887	18115	24002	0	3	0
1/5/2018	56	372864	324595	22144	26125	0	-15	1
1/6/2018	60	388576	341085	21190	26301	0	-11	2
1/7/2018	48	334867	290266	19425	25175	0	10	1
1/8/2018	32	249798	207308	17290	22542	2657	22	0
1/9/2018	33	244836	201332	16690	22335	4478	7	0
1/10/2018	32	224450	182941	15625	20980	4904	1	0
1/11/2018	18	159374	125347	12015	17957	4054	15	0
1/12/2018	6	104122	76571	9315	15176	3060	19	1
1/13/2018	39	233193	194682	14542	20747	3222	-27	2
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1/15/2018	44	313661	269675	19361	24625	0	-2	0
1/16/2018	31	230033	190410	15646	21397	2580	14	0
1/17/2018	35	237962	196340	16120	21885	3617	3	0
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1/19/2018	31	230232	189594	14866	20948	4823	6	1
1/20/2018	25	181384	147469	11618	18270	4028	10	2
1/21/2018	26	178044	143219	12264	18486	4074	2	1
1/22/2018	26	193721	155617	14053	19868	4183	-1	0
1/23/2018	19	162586	128291	12624	17784	3886	7	0
1/24/2018	36	240008	197647	16341	21567	4454	-14	0

Page 32 of 49

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1/25/2018	40	279187	234951	17665	23494	3078	-13	0
1/26/2018	35	244955	202893	15535	21382	5145	3	1
1/27/2018	15	147056	116370	10385	16558	3743	23	2
1/28/2018	22	166753	132862	11825	18036	4031	3	1
1/29/2018	35	243059	199293	16228	22300	5238	-17	0
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1/31/2018	35	242100	200783	16121	22418	2779	3	0
2/1/2018	27	192727	154380	14279	20343	3725	11	0
2/2/2018	48	304013	261295	18470	24248	0	-17	1
2/3/2018	37	259087	217893	15356	21495	4343	1	2
2/4/2018	22	177988	143715	12239	18510	3524	21	1
2/5/2018	37	241170	197252	16431	22237	5250	-8	0
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2/7/2018	32	240658	197539	16250	21957	4913	5	0
2/8/2018	39	254562	209847	17134	23055	4526	-5	0
2/9/2018	32	226977	186551	15105	20612	4710	4	1
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2/17/2018	31	193433	157021	12657	19185	4570	-10	2
2/18/2018	30	197739	160575	12930	19708	4527	-3	1
2/19/2018	15	142067	109439	11533	17523	3572	16	0
2/20/2018	8	95556	67348	9692	15390	3126	15	0
2/21/2018	8	93840	65613	9634	15451	3142	4	0
2/22/2018	29	186786	149919	13754	19846	3267	-21	0
2/23/2018	24	175385	141119	12647	18715	2904	-6	1
2/24/2018	19	136981	107789	10277	16219	2696	8	2
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3/3/2018	24	190899	156745	11959	17620	4574	-3	2
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3/6/2018	29	196056	157143	14165	19970	4778	-2	0
3/7/2018	30	220731	180194	14725	20855	4957	-2	0
3/8/2018	30	211494	171185	14828	20528	4953	-1	0
3/9/2018	30	206938	168410	13982	19802	4745	0	1
3/10/2018	29	194194	159130	12589	18002	4473	1	2

Page 33 of 49

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3/11/2018	27	180975	145594	12563	18397	4421	3	1
3/12/2018	27	193244	156374	13287	19505	4078	1	0
3/13/2018	35	239122	198120	14318	21624	5059	-8	0
3/14/2018	30	209015	168805	15177	20464	4568	1	0
3/15/2018	28	197238	158527	14708	20396	3607	5	0
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3/17/2018	35	222509	184632	14241	19739	3897	-5	2
3/18/2018	35	235702	196155	14976	20730	3841	-1	1
3/19/2018	33	222308	182101	15423	20856	3928	2	0
3/20/2018	28	202986	164394	14540	19899	4153	6	0
3/21/2018	30	224800	184019	15285	20663	4833	1	0
3/22/2018	26	192486	154206	13873	19912	4495	3	0
3/23/2018	23	161165	126729	12269	18056	4111	5	1
3/24/2018	25	163741	131116	11125	17488	4013	-1	2
3/25/2018	31	216655	177863	13715	20469	4607	-7	1
3/26/2018	29	203836	163524	14647	21023	4642	-1	0
3/27/2018	21	156185	121564	12734	18707	3180	9	0
3/28/2018	19	133259	101402	11711	17198	2947	6	0
3/29/2018	15	114519	85738	10489	15612	2680	5	0
3/30/2018	14	115326	86662	9562	14889	4214	3	1
3/31/2018	19	127857	99010	9358	15002	4487	-5	2
4/1/2018	20	141397	109769	10502	16832	4294	-4	1
4/2/2018	30	194445	156252	13793	19966	4434	-11	0
4/3/2018	25	178927	142392	12905	19348	4281	0	0
4/4/2018	20	161850	126272	12570	18462	4546	8	0
4/5/2018	30	202729	162684	14411	20454	5181	-8	0
4/6/2018	24	178809	144016	12369	18084	4340	1	1
4/7/2018	25	166623	133643	11484	17513	3983	2	2
4/8/2018	29	190044	153350	12917	19287	4490	-5	1
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4/14/2018	19	122642	93368	9463	15316	4495	-6	2
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4/24/2018	11	87052	58924	8954	15277	3897	4	0

4/25/2018	11	92970	64972	9097	152/2	3630	2	U
4/26/2018	6	73730	47206	8367	13970	4188	5	0
4/27/2018	12	84973	58855	8125	13790	4203	-4	1
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5/2/2018	-9	57184	33124	7146	13023	3892	19	0
5/3/2018	-9	54815	31107	6887	12770	4051	6	0
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5/6/2018	9	62043	39692	6606	12288	3457	-12	1
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5/9/2018	5	59003	34476	6842	13305	4380	2	0
5/10/2018	4	58810	34802	7063	12729	4217	3	0
5/11/2018	7	58401	34899	6714	12612	4176	-3	1
5/12/2018	13	74117	50730	6762	12245	4380	-8	2
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5/18/2018	14	72984	48597	7561	13100	3726	-9	1
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6/5/2018	5	56849	33186	7005	12979	3679	6	0
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6/8/2018	-5	48371	26704	6143	12198	3326	11	1

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6/9/2018	-5	44512	25523	4881	10550	3558	5	2	1 49
6/10/2018	-3 3	49541	29050	5581	11465	3444	-8	1	
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							- <i>7</i> 5		
6/12/2018 6/13/2018	0 -5	51118 50199	28676 27578	6548 6541	11833 12291	4062 3790	5 8	0 0	
							2		
6/14/2018	-4	49773	27254	6335	12335	3849		0	
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7/23/2018	-11	47655	24719	5843	12943	4150	4	0	

Page 36 of 49

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9/6/2018 -12 52440 28639 6220 12362 5219 -2	1 0

Page 37 of 49

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10/18/2018	25	145247	109976	11951	16977	6343	-9	0
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10/21/2018	27	148178	114674	10859	17063	5583	-17	1

Page 38 of 49

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11/10/2018	27	163904	132066	11303	15869	4665	-8	2
11/11/2018	29	172626	139875	11636	16651	4464	-8	1
11/12/2018	17	134386	103753	10609	15768	4256	11	0
11/13/2018	22	154029	119266	12063	17125	5575	1	0
11/14/2018	36	230591	187967	15462	20202	6961	-17	0
11/15/2018	32	222958	183110	14751	19731	5367	-3	0
11/16/2018	28	189799	153397	13262	18277	4863	6	1
11/17/2018	25	166108	134269	11224	16276	4339	5	2
11/18/2018	25	169533	135852	11501	17541	4638	2	1
11/19/2018	24	163732	127936	12404	18624	4767	1	0
11/20/2018	31	202440	162795	14099	20488	5057	-7	0
11/21/2018	36	231929	196308	14622	20526	473	-9	0
11/22/2018	48	290302	251524	16135	22267	376	-15	0
11/23/2018	37	237994	201930	14586	21136	342	5	1
11/24/2018	22	158429	126568	10646	17018	4198	21	2
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11/26/2018	21	157808	121988	12018	19034	4767	2	0
11/27/2018	26	183491	144968	13323	19700	5499	-4	0
11/28/2018	26	194053	155192	13638	19772	5452	-3	0
11/29/2018	29	197017	157893	13663	20051	5410	-3	0
11/30/2018	29	194448	156369	13225	19608	5246	-2	1
12/1/2018	25	162372	129679	11014	17265	4414	4	2
12/2/2018	12	113875	85666	9064	15267	3878	15	1
12/3/2018	20	139564	105889	11692	17337	4646	-2	0
12/4/2018	35	220226	178955	15156	20686	5430	-19	0
12/5/2018	35	225163	183133	15406	21007	5617	-8	0

Page 39 of 49

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12/6/2018	30	206061	166343	14450	20103	5165	5	0
12/7/2018	38	239895	197807	15252	21247	5589	-6	1
12/8/2018	40	255640	215137	14626	20521	5357	-6	2
12/9/2018	36	240784	200018	14741	20829	5196	3	1
12/10/2018	37	243205	199753	16388	21390	5675	1	0
12/11/2018	33	222663	181033	15573	20592	5465	4	0
12/12/2018	37	243068	199395	16422	21487	5764	-2	0
12/13/2018	34	232056	190077	15885	20728	5365	1	0
12/14/2018	20	151535	118914	11385	17472	3765	16	1
12/15/2018	21	144404	114476	10031	16248	3649	6	2
12/16/2018	26	181093	146137	12291	18375	4291	-6	1
12/17/2018	30	214919	174923	14837	20314	4845	-7	0
12/18/2018	39	262344	219487	16747	21615	4495	-11	0
12/19/2018	33	220531	181175	14890	20485	3980	2	0
12/20/2018	18	148818	116664	11257	17164	3733	18	0
12/21/2018	11	95817	69606	8826	14172	3213	15	1
12/22/2018	27	175271	142545	11512	16949	4265	-13	2
12/23/2018	31	191154	156927	12433	17479	4315	-12	1
12/24/2018	32	199713	165680	12513	18114	3406	-3	0
12/25/2018	35	214727	178740	12993	19479	3515	-4	0
12/26/2018	30	209103	172404	14030	19588	3082	4	0
12/27/2018	28	193100	158925	13288	18749	2139	5	0
12/28/2018	11	119535	93105	9839	15021	1570	18	1
12/29/2018	28	168452	138086	11421	16883	2061	-9	2
12/30/2018	35	207174	173642	12959	18231	2342	-16	1
12/31/2018	19	160849	132048	10654	16259	1889	13	0
1/1/2019	26	172838	139915	11795	17974	3155	1	0
1/2/2019	32	209473	172564	14405	20174	2330	-10	0
1/3/2019	28	187959	151172	13583	18943	4262	1	0
1/4/2019	24	166764	132865	11928	18050	3922	6	1
1/5/2019	27	179938	146574	11711	17430	4223	-1	2
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1/7/2019	35	248259	205044	16047	22031	5137	-5	0
1/8/2019	23	178851	142579	12946	19220	4106	12	0
1/9/2019	28	205306	165971	14321	20451	4562	1	0
1/10/2019	37	257057	213361	16505	22043	5148	-12	0
1/11/2019	45	285597	245182	17346	23008	61	-13	1
1/12/2019	42	269066	232153	15345	21568	0	-1	2
1/13/2019	40	261289	223819	15611	21859	0	4	1
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1/15/2019	37	248428	206873	15966	20359	5230	4	0
1/16/2019	35	244759	203265	15858	20352	5284	4	0
1/17/2019	38	249397	207629	16246	21722	3800	-2	0
1/18/2019	32	213567	174573	14235	20680	4078	5	1
1/19/2019	33	217356	181552	13514	20487	1803	2	2

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1/20/2010	40	207022	256020	17213	22600	0	17	Page 40	01 49
1/20/2019	49 50	297832	256930		23689	0	-17 -18	1	
1/21/2019	59	#N/A	#N/A	#N/A	#N/A	#N/A	-18	0	
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1/23/2019	19	#N/A	#N/A	#N/A	#N/A	#N/A	33	0	
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1/25/2019	35	#N/A	#N/A	#N/A	#N/A	#N/A	-15	1	
1/26/2019	36	#N/A	#N/A	#N/A	#N/A	#N/A	-8	2	
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1/29/2019	30	219931	180998	14776	21161	2997	3	0	
1/30/2019	49	300794	258179	18355	24260	0	-15	0	
1/31/2019	53	346411	300410	20706	25296	0	-14	0	
2/1/2019	49	324587	281499	19097	23991	0	2	1	
2/2/2019	33	239755	205079	14522	20154	0	18	2	
2/3/2019	30	205964	170664	13105	18900	3295	11	1	
2/4/2019	23	155192	122309	12052	18006	2825	9	0	
2/5/2019	19	146469	113769	11807	17191	3702	8	0	
2/6/2019	28	184138	147013	13788	18996	4341	-7	0	
2/7/2019	26	187862	151270	13407	18867	4318	-3	0	
2/8/2019	30	213199	175018	14070	19389	4723	-3	1	
2/9/2019	39	258372	219092	14957	20550	3773	-11	2	
2/10/2019	34	230977	192970	14217	20252	3538	1	1	
2/11/2019	37	245359	203386	16231	22063	3679	-1	0	
2/12/2019	34	244809	204032	15795	21389	3593	2	0	
2/13/2019	30	221964	181533	14925	20648	4859	6	0	
2/14/2019	28	212710	174010	14151	20011	4538	4	0	
2/15/2019	20	164886	131690	11861	17453	3882	9	1	
2/16/2019	32	199696	165090	12785	18483	3338	-8	2	
2/17/2019	34	208197	171786	13461	19534	3416	-8	1	
2/18/2019	39	258710	216140	16421	22279	3870	-6	0	
2/19/2019	40	268153	224309	17180	22680	3984	-4	0	
2/20/2019	36	251275	210793	16348	21325	2810	4	0	
2/21/2019	25	188424	152499	13465	19287	3174	13	0	
2/22/2019	29	190303	154922	13260	18904	3217	2	1	
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2/24/2019	24	181763	148413	12116	18213	3020	5	1	
2/25/2019	35	260414	218768	16427	22468	2752	-9	0	
2/26/2019	43	286889	244613	18009	23637	630	-14	0	
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2/28/2019	41	257792	218086	17049	22085	572	2	0	
3/1/2019	33	212953	175560	14336	20606	2451	9	1	
3/2/2019	33	215304	178294	13035	20470	3505	4	2	
3/3/2019	30	189055	153987	12638	19030	3401	3	1	
3/4/2019	30 37	240169	200955	15879	20670	2665	-6	0	
3/5/2019	43	254173	215902	16885	21375	12	-10	0	
2/2/2013	45	2341/3	213902	10002	213/3	12	-10	U	

Page 41 of 49

								Page 4
3/6/2019	47	292274	251639	18276	22348	11	-7	0
3/7/2019	44	277146	237864	17592	21680	11	1	0
3/8/2019	36	237704	198270	15090	19386	4958	10	1
3/9/2019	30	184888	152935	11523	16290	4140	10	2
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3/14/2019	19	143794	112371	11191	16510	3723	10	0
3/15/2019	12	109737	82674	9229	14625	3209	11	1
3/16/2019	26	164742	132896	10776	17126	3944	-11	2
3/17/2019	31	201524	164492	12927	19631	4474	-12	1
3/18/2019	30	200389	162079	13913	19775	4622	-2	0
3/19/2019	28	191373	154219	13660	19028	4466	3	0
3/20/2019	25	168297	133316	12563	18258	4160	4	0
3/21/2019	22	159476	125550	12071	17765	4090	5	0
3/22/2019	28	193743	157927	13171	18283	4362	-5	1
3/23/2019	27	187102	154394	11935	17504	3269	-2	2
3/24/2019	17	138466	109189	10041	16399	2837	11	1
3/25/2019	25	160878	126812	12402	18418	3247	-3	0
3/26/2019	28	184215	147861	13575	19284	3494	-7	0
3/27/2019	29	178511	142925	12931	19334	3322	-3	0
3/28/2019	20	141410	110423	10563	17423	3001	9	0
3/29/2019	17	121992	93890	9265	15566	3271	8	1
3/30/2019	9	80951	57346	7133	13383	3090	10	2
3/31/2019	21	140500	108926	10234	17164	4176	-8	1
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4/2/2019	23	154830	121786	11969	16900	4176	2	0
4/3/2019	15	129456	98381	10910	15983	4183	11	0
4/4/2019	23	159109	125238	11924	17077	4871	-4	0
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4/7/2019	13	92432	66418	8325	13620	4069	6	1
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4/14/2019	5	65938	42455	6816	13152	3516	5	1
4/15/2019	15	101669	71795	9760	15822	4293	-9	0
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4/19/2019	-1	60108	38357	6710	11716	3325	14	1

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4/20/2019	6	63678	42044	6304	11750	3580	-2	Page 42 2	01 49
4/20/2019	10	71574	42044 47848	7144	13041	3541	-2 -8	1	
4/21/2019	10	91525	63591	9222	14780	3932	-6 -4	0	
4/22/2019 4/23/2019	12	86237	58436	8903	14780	3932 4827	- 4 -1		
4/23/2019 4/24/2019	10	80719	53384	8701	13858	4627 4776	-1 2	0 0	
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4/25/2019	13	82701	55522	8598	13893	4688		0	
4/26/2019	14	97824	71174	8564	13807	4279	-3	1	
4/27/2019	17	108805	82523	8149	13756	4376	-4	2	
4/28/2019	19	124038	95328	9191	14924	4595	-4	1	
4/29/2019	15	100512	71858	9355	15177	4123	3	0	
4/30/2019	17	117836	88406	9902	15444	4084	0	0	
5/1/2019	14	101955	73587	9167	15048	4152	2	0	
5/2/2019	17	107566	78191	9508	15111	4756	-2	0	
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5/4/2019	9	69573	47532	6406	11997	3638	6	2	
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5/6/2019	12	87410	60405	8844	14306	3855	0	0	
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5/8/2019	11	74680	48270	8422	13907	4081	-3	0	
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5/19/2019	1	55979	34548	5797	12055	3579	4	1	
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5/26/2019	-11	45103	25814	4600	10449	4241	14	1	
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6/2/2019	2	52783	30822	5493	11628	4840	-1	1	
6/3/2019	4	57462	33405	6845	12655	4557	-2	0	
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Page 43 of 49

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6/4/2019	0	54823	31323	6548	12157	4795	3	0
6/5/2019	-5	50475	27293	6143	12450	4589	7	0
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6/8/2019	1	48379	27040	4857	11466	5017	-3	2
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6/10/2019	-3	49530	26677	6149	12538	4166	5	0
6/11/2019	-2	52045	28251	6186	12416	5191	2	0
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6/15/2019	-6	46490	25940	4843	10721	4987	11	2
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6/18/2019	-1	51887	27077	6274	12734	5802	-3	0
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6/28/2019	-14	46697	24338	5470	11185	5704	7	1
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7/9/2019	-12	47656	24644	5793	11802	5417	6	0
7/10/2019	-12	47587	24218	6000	11436	5932	3	0
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7/17/2019	-13	46688	23370	6033	11621	5664	1	0
7/18/2019	-2	48864	25542	6170	11600	5553	-12	0

								Page 44	
7/19/2019	-16	49904	27813	5544	11243	5305	9	1	01 49
7/19/2019	-10 -22	40168	20737	4729	10070	4633	13	2	
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7/21/2019	-21 -8	45045	23085	6193	11715	4052	-14	0	
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	-2 -7					5076			
7/24/2019		48700	25320	6518	11787		2	0	
7/25/2019	-7	48835	24621	6286	11768	6161	3	0	
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7/28/2019	-15	43760	22799	4667	11828	4467	8	1	
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7/30/2019	-16	48128	23766	5923	12658	5781	1	0	
7/31/2019	-14	47424	23262	5866	12446	5850	-2	0	
8/1/2019	-11	47964	24142	5928	11804	6090	-4	0	
8/2/2019	-10	45662	23424	5334	11641	5263	-3	1	
8/3/2019	-13	40925	21693	4217	10525	4491	3	2	
8/4/2019	-10	43440	23206	4440	11063	4732	-2	1	
8/5/2019	-7	46628	24148	5763	12202	4515	-5	0	
8/6/2019	-7	46974	24244	5785	12186	4759	-2	0	
8/7/2019	-11	47477	24046	5898	12151	5382	4	0	
8/8/2019	-10	47352	24076	6230	11631	5414	1	0	
8/9/2019	-8	44224	23095	5450	10914	4764	-3	1	
8/10/2019	-4	41268	22778	4372	9656	4462	-5	2	
8/11/2019	-6	41034	22520	4646	10152	3716	0	1	
8/12/2019	-12	44907	23386	5433	11129	4959	7	0	
8/13/2019	-6	47764	24020	6181	11656	5906	-3	0	
8/14/2019	-6	48303	24406	6211	11456	6230	-3	0	
8/15/2019	-6	47990	24416	6119	11241	6215	0	0	
8/16/2019	-7	45325	23655	5492	10838	5341	1	1	
8/17/2019	-9	41732	22505	4475	9967	4785	3	2	
8/18/2019	-14	43501	22906	4820	10679	5095	6	1	
8/19/2019	-12	50216	28793	5911	11491	4021	1	0	
8/20/2019	-11	45405	23756	6097	11316	4236	-2	0	
8/21/2019	-12	46815	24479	5933	11927	4477	1	0	
8/22/2019	-13	46237	23501	6090	11524	5122	2	0	
8/23/2019	-4	45289	24246	5602	11014	4427	-9	1	
8/24/2019	-1	42320	23265	4664	9835	4556	-8	2	
8/25/2019	3	46932	26318	5210	10702	4702	-6	1	
8/26/2019	2	49485	27037	6170	11753	4525	-1	0	
8/27/2019	-1	49370	26961	6164	11631	4614	4	0	
8/28/2019	-6	48442	24520	6400	11774	5748	7	0	
8/29/2019	-7	48454	26848	6259	10840	4508	4	0	
8/30/2019	-9	45527	24038	5690	10879	4921	3	1	
8/31/2019	-4	43025	23506	4847	9958	4715	-4	2	
9/1/2019	-2	42223	22727	4673	9919	4904	-5	1	

Page 45 of 49

								Page 4
9/2/2019	-5	46615	25088	5190	11318	5019	2	0
9/3/2019	-5	49066	25376	6554	11883	5253	2	0
9/4/2019	-6	49633	25397	6502	11556	6179	1	0
9/5/2019	2	50388	26516	6696	11603	5573	-8	0
9/6/2019	3	48352	26376	6066	11073	4837	-5	1
9/7/2019	0	45110	25860	5033	9474	4744	3	2
9/8/2019	-2	47399	26844	5340	10266	4950	4	1
9/9/2019	-1	49844	26527	6527	11484	5306	0	0
9/10/2019	-5	50557	26393	6402	11780	5983	4	0
9/11/2019	-8	48883	25401	6263	11761	5459	5	0
9/12/2019	7	53091	29453	6716	11823	5100	-14	0
9/13/2019	6	51249	28698	6153	11195	5203	-7	1
9/14/2019	-4	44754	25098	5015	9781	4860	11	2
9/15/2019	-5	46664	26318	5249	10339	4758	6	1
9/16/2019	1	48979	27421	6538	10523	4497	-6	0
9/17/2019	3	50323	28349	6676	10533	4766	-5	0
9/18/2019	11	59526	34833	7286	11812	5595	-9	0
9/19/2019	7	57575	33481	7005	11372	5717	0	0
9/20/2019	-3	48910	26895	5773	11119	5124	12	1
9/21/2019	-3	44679	24866	4891	10023	4900	5	2
9/22/2019	-7	47008	25807	5217	10881	5103	4	1
9/23/2019	-8	49232	25584	6464	11902	5281	3	0
9/24/2019	0	50888	26899	6656	12022	5312	-8	0
9/25/2019	2	51598	27832	6487	11638	5641	-6	0
9/26/2019	1	51839	28072	6521	11795	5451	0	0
9/27/2019	3	49606	27477	5997	11179	4954	-2	1
9/28/2019	-6	44003	24409	4828	10098	4669	8	2
9/29/2019	1	48912	27948	5543	10832	4590	-3	1
9/30/2019	5	52637	29661	6572	11735	4670	-8	0
10/1/2019	-5	50645	27435	6085	12108	5016	8	0
10/2/2019	3	53677	29190	6711	12517	5259	-3	0
10/3/2019	13	64710	39453	7496	12514	5247	-14	0
10/4/2019	14	72967	47856	7304	12610	5198	-6	1
10/5/2019	16	76087	52999	6766	11102	5221	-3	2
10/6/2019	-2	56899	35035	5909	11307	4648	17	1
10/7/2019	-1	50296	26712	6482	12368	4735	8	0
10/8/2019	8	61748	36373	7346	12955	5074	-10	0
10/9/2019	12	78421	51833	8130	13356	5102	-9	0
10/10/2019	11	89087	61075	8582	14062	5369	-1	0
10/11/2019	12	84172	58427	7602	12983	5160	-1	1
10/12/2019	11	72396	49260	6538	11842	4757	1	2
10/13/2019	8	62106	39458	6224	11806	4617	4	1
10/14/2019	8	65951	41332	6956	13014	4648	2	0
10/15/2019	15	84388	56621	8416	14331	5020	-7	0
10/16/2019	8	77373	50415	8361	13761	4836	4	0

Page 46 of 49

								r age 4
10/17/2019	13	94003	65337	8935	14217	5515	-2	0
10/18/2019	16	95829	67090	8561	14763	5415	-6	1
10/19/2019	17	95111	69402	7615	13229	4864	-3	2
10/20/2019	10	80100	54641	7189	13531	4739	7	1
10/21/2019	11	81204	53124	8443	14371	5266	3	0
10/22/2019	8	75061	48474	8172	13758	4657	3	0
10/23/2019	11	84230	55378	8782	14385	5686	-2	0
10/24/2019	10	80114	52779	7967	14330	5038	-1	0
10/25/2019	9	70641	45375	7241	13171	4854	2	1
10/26/2019	12	76273	51989	6808	12543	4934	-3	2
10/27/2019	13	95330	68150	7941	13970	5270	-3	1
10/28/2019	13	91528	62679	8830	15056	4962	-1	0
10/29/2019	10	82138	54069	8357	14443	5269	3	0
10/30/2019	4	64349	38149	7552	13563	5084	8	0
10/31/2019	0	59246	34131	7319	13088	4708	7	0
11/1/2019	20	106264	77020	8936	14945	5363	-18	1
11/2/2019	20	117065	90547	8602	13415	4501	-10	2
11/3/2019	22	126455	98213	8988	14049	5205	-2	1
11/4/2019	19	121560	91995	9359	14624	5582	2	0
11/5/2019	16	113811	85049	9309	14144	5308	5	0
11/6/2019	22	136130	104871	10739	14642	5878	-5	0
11/7/2019	20	134208	103053	10672	15075	5409	-1	0
11/8/2019	35	211447	173892	13292	18493	5770	-14	1
11/9/2019	33	191432	157950	11587	16923	4973	-6	2
11/10/2019	20	143782	114510	9666	15344	4263	14	1
11/11/2019	13	101518	74204	8666	14753	3895	14	0
11/12/2019	36	218914	180410	13970	19257	5277	-20	0
11/13/2019	40	248910	212722	15502	20501	184	-16	0
11/14/2019	29	200416	163366	13172	18432	5446	9	0
11/15/2019	24	168333	134828	11425	17251	4830	11	1
11/16/2019	35	220389	184158	12601	18429	5201	-9	2
11/17/2019	28	198349	163113	12059	18256	4921	2	1
11/18/2019	25	178794	143279	12336	18213	4967	7	0
11/19/2019	22	154684	120718	11716	17440	4811	5	0
11/20/2019	26	181893	145406	12513	18715	5259	-3	0
11/21/2019	20	149471	116266	11018	17331	4857	4	0
11/22/2019	25	171839	137289	11526	17754	5270	-2	1
11/23/2019	24	157339	126214	10207	16202	4716	-2	2
11/24/2019	23	170278	136883	10984	17399	5012	2	1
11/25/2019	21	147235	113981	10768	17482	5004	3	0
11/26/2019	18	131033	99761	10187	16417	4668	4	0
11/27/2019	16	127480	98821	9372	15175	4112	4	0
11/28/2019	27	180792	147667	10889	17202	5034	-10	0
11/29/2019	30	203728	168083	12313	18233	5100	-9	1
11/30/2019	36	226724	190628	12760	18492	4844	-8	2

Page 47 of 49

								1 450
12/1/2019	30	214134	177817	12801	18923	4592	3	1
12/2/2019	33	231434	191137	14504	20754	5038	0	0
12/3/2019	34	234241	193171	14988	20750	5331	-3	0
12/4/2019	30	208489	169850	13989	19738	4912	4	0
12/5/2019	31	216330	176839	14096	20051	5344	1	0
12/6/2019	29	210078	172725	13198	19202	4954	2	1
12/7/2019	39	235123	201290	13627	19667	540	-9	2
12/8/2019	30	204611	169606	12204	18405	4396	4	1
12/9/2019	9	117866	89248	9511	15603	3505	26	0
12/10/2019	20	139213	106124	11107	16976	5007	-1	0
12/11/2019	37	236281	195271	15140	20523	5348	-23	0
12/12/2019	38	248275	206351	15408	21046	5470	-10	0
12/13/2019	20	170767	138141	11253	17337	4037	18	1
12/14/2019	14	115142	88185	8557	14749	3652	15	2
12/15/2019	28	198378	162949	12289	18331	4810	-11	1
12/16/2019	34	234286	193302	14847	20745	5393	-13	0
12/17/2019	33	231765	191053	14941	20833	4938	-2	0
12/18/2019	41	257874	219200	16548	22127	0	-8	0
12/19/2019	47	313560	271583	18199	23779	0	-10	0
12/20/2019	41	271083	233363	15687	22034	0	3	1
12/21/2019	34	230883	194616	12923	18915	4430	10	2
12/22/2019	30	201523	166840	12040	18248	4395	8	1
12/23/2019	21	161817	130307	10637	16913	3961	11	0
12/24/2019	31	194794	161655	11439	17443	4258	-6	0
12/25/2019	29	184754	152054	10930	17523	4247	-3	0
12/26/2019	27	189931	155343	12103	18202	4283	3	0
12/27/2019	19	152326	122293	10144	16305	3584	9	1
12/28/2019	25	169038	137948	10629	16638	3823	-2	2
12/29/2019	26	172119	139572	11075	17486	3986	-4	1
12/30/2019	27	197056	161873	12302	18557	4323	-2	0
12/31/2019	27	181813	149477	11127	17059	4150	-1	0
1/1/2020	30	200460	165510	12021	18592	4338	-3	0
1/2/2020	21	165004	131696	11544	17870	3894	8	0
1/3/2020	19	139988	109903	10024	16521	3541	7	1
1/4/2020	24	158270	127524	10489	16418	3839	-4	2
1/5/2020	33	217490	180651	13330	18801	4707	-12	1
1/6/2020	32	225638	186630	14306	19876	4826	-4	0
1/7/2020	30	201774	164221	13494	19427	4632	3	0
1/8/2020	36	249458	207568	15388	21155	5347	-5	0
1/9/2020	36	252546	211296	15311	20793	5146	-3	0
1/10/2020	15	149793	119804	10231	16215	3543	21	1
1/11/2020	4	80259	57223	7074	13193	2769	22	2
1/12/2020	16	121607	93002	9366	15819	3420	-7	1
1/13/2020	26	177028	142109	12297	18362	4260	-16	0
1/14/2020	25	174970	140297	12178	18161	4334	-4	0

Page 48 of 49

								Page 4
1/15/2020	25	167121	132817	11882	18312	4110	1	0
1/16/2020	34	233159	193578	14575	20341	4665	-9	0
1/17/2020	47	302007	262190	17092	22724	0	-18	1
1/18/2020	36	250120	212820	14137	19562	3602	5	2
1/19/2020	36	233339	195378	14187	20102	3673	6	1
1/20/2020	44	283315	243059	17019	23237	0	-8	0
1/21/2020	44	288986	248192	17415	23379	0	-4	0
1/22/2020	38	247915	208263	15671	21519	2463	6	0
1/23/2020	29	207560	169694	13733	19644	4488	12	0
1/24/2020	25	174745	140885	11802	17945	4113	9	1
1/25/2020	19	150176	120562	9978	15988	3649	8	2
1/26/2020	25	171570	138541	11252	17870	3907	-3	1
1/27/2020	25	183922	148019	12578	19259	4066	-3	0
1/28/2020	29	205052	167011	13604	19755	4682	-4	0
1/29/2020	35	226862	186188	14663	20825	5186	-8	0
1/30/2020	36	232974	192031	14950	20853	5141	-4	0
1/31/2020	28	186456	151047	12467	18530	4412	8	1
2/1/2020	27	179846	146842	11543	17237	4224	5	2
2/2/2020	28	190583	155783	12107	18378	4316	-1	1
2/3/2020	27	188227	150624	13236	19490	4876	1	0
2/4/2020	23	166759	131981	12001	18055	4722	5	0
2/5/2020	28	194691	157984	13300	19111	4296	-3	0
2/6/2020	27	191694	155667	13148	18544	4336	-2	0
2/7/2020	30	213848	176982	13522	18641	4703	-3	1
2/8/2020	36	232971	195610	13690	18715	4956	-8	2
2/9/2020	27	201075	166284	12294	18158	4339	6	1
2/10/2020	22	167648	133699	11926	18089	3934	10	0
2/11/2020	25	180877	145180	12714	18793	4191	-1	0
2/12/2020	26	177484	141738	12767	18620	4359	-3	0
2/13/2020	29	198027	161678	13390	18738	4221	-4	0
2/14/2020	46	274528	236330	16699	21499	0	-19	1
2/15/2020	38	248561	210942	14307	19508	3804	-1	2
2/16/2020	29	203158	168476	12621	18436	3627	13	1
2/17/2020	28	196321	159231	13164	19422	4505	6	0
2/18/2020	26	192797	156804	12822	18875	4296	3	0
2/19/2020	32	213830	175102	14221	19967	4540	-5	0
2/20/2020	39	251136	213775	16098	21264	0	-10	0
2/21/2020	37	241000	203610	14834	19914	2641	-2	1
2/22/2020	29	190852	157601	11821	17125	4305	9	2
2/23/2020	24	164676	132137	10913	17651	3975	9	1
2/24/2020	18	131230	100070	10566	17096	3498	9	0
2/25/2020	19	129525	98586	10447	17053	3439	2	0
2/26/2020	18	139821	108528	10806	16855	3632	1	0
2/27/2020	29	203434	165807	13841	19444	4343	-11	0
2/28/2020	33	215079	179317	13849	19478	2435	-10	1

Page 49 of 49

								1 48
3/1/2020	35	230341	191384	13696	20234	5028	1	1
3/2/2020	14	135307	103807	10621	17500	3380	23	0
3/3/2020	15	114618	84225	10018	16842	3534	10	0
3/4/2020	20	149526	116298	11444	17792	3992	-6	0
3/5/2020	24	153910	120725	11666	17476	4044	-7	0
3/6/2020	27	189018	154062	12330	18166	4460	-5	1
3/7/2020	27	185832	153285	11393	16952	4202	-2	2
3/8/2020	17	140962	110931	9698	16672	3662	10	1
3/9/2020	8	92098	64075	8461	15382	4181	14	0
3/10/2020	9	88986	62481	8391	14725	3389	4	0
3/11/2020	20	123946	93627	10085	16325	3909	-12	0
3/12/2020	20	137801	108116	10153	15549	3983	-6	0
3/13/2020	17	131906	102870	9536	15738	3761	3	1
3/14/2020	20	132910	104696	8985	15404	3826	-2	2
3/15/2020	27	161591	129313	10410	17694	4175	-9	1
3/16/2020	28	177830	142646	11416	19377	4392	-5	0
3/17/2020	22	161783	128899	10478	18289	4117	6	0
3/18/2020	20	133489	101544	9877	17291	4778	5	0
3/19/2020	21	145155	114558	9638	17278	3680	0	0
3/20/2020	9	95633	70928	7149	14387	3169	12	1
3/21/2020	26	150486	121440	9045	16146	3855	-11	2
3/22/2020	31	183628	143226	14445	20926	5031	-14	1
3/23/2020	27	192825	173652	5139	10159	3875	2	0
3/24/2020	22	147434	116269	10119	17481	3565	7	0
3/25/2020	26	175549	141853	11009	18460	4228	-2	0
3/26/2020	17	120666	91340	8763	16509	4054	7	0
3/27/2020	15	105789	78829	7540	15521	3899	7	1
3/28/2020	19	117300	90955	7252	14943	4150	-3	2
3/29/2020	22	148890	119056	8761	16579	4495	-5	1
3/30/2020	25	165176	131767	10498	17790	5121	-5	0
3/31/2020	26	158931	125538	10112	18080	5202	-3	0

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-8

Request:

Please provide monthly supply plans for each month of the winter of 2019/20.

Response:

Please see Attachment DIV 1-8.

RHODE ISLAND MONTHLY PLAN November 2019								
	MIN DAY	AVG DAY	MAX DAY					
*4-Year Historical Sendout	57,734	137,098	290,302					
HDD	0	20	54					
*All Sales and Transportation customers. No power plants.								
**Forecasted Sendout	58,490	119,944	219,828					
HDD	10	20	37					
**Firm Sales and Transportation customers w/ NGRID Capacity.								
Forecasted Firm Transporation	16,965	28,795	47,472					
Forecasted Sales Demand	41,525	91,149	172,356					

Baseload Election - Volume per Da	
Dawn	0
Longhaul	<u>14,000</u>
TGP Total	14,000
Longhaul	<u>24,000</u>
AGT Total	24,000
Grand Total	38,000

Page 2 of 15 Estimated Rhode Island Capacity Breakout for November 2019 **ALGONQUIN** Receipt Receipt Seasonal City Gate Net CG Available M2 МЗ CG Loss Baseload Path **Point** Volumes Capacity Deliveries Swing Transco Leidy->AGT Transco 72 72 0 72 72 72 0 TETCO->AGT M2 27,250 27,250 26,792 0 26,655 26,655 23,928 2,727 DTI->TETCO FTS->AGT Dom SP 0 0 0 0 0 0 0 9.069 9,000 0 8,831 8,831 0 8,831 Millen->Ramapo->AGT Millennium AGT 8,289 8,289 8,247 8,247 8,247 МЗ 0 0 TCO->AGT Maumee 27,903 27,487 (16,718)10,629 10,629 0 10,629 TCO->AGT Broad Run 10,151 10,000 9,949 9,949 0 9,949 Spotlight AMA 0 TCO->AGT 3,655 3,600 (3,582)0 0 Eagle 0 0 TCO->AGT 3,403 3,352 (3,335)0 0 Pennsburg RAMAPO->AGT RAMAPO 9,345 9,345 0 9,169 9,169 0 9,169 1,158 1,158 1,158 Transco Leidy->AGT SCT Transco 1,172 1,164 0 0 3,167 3,167 Remaining AGT (SCT) M3 (SCT) 3,183 3,183 (276)3,167 0 Constellation Supply AGT Citygate AGT CG 14,100 14,100 14,100 0 14,100 (23,911)91,977 91,977 24,000 67,977 117,592 Transport **AGT Storage** Receipt In-Hole Seasonal Storage **MDWQ** Path Point WDs М3 CG Loss Capacity 2,368 GSS-TE 600045 DTI GSS-TE 5,644 5,644 5,549 (3,153)GSS 300169 DTI GSS 0 0 0 0 0 GSS 300171 DTI GSS 2,617 2,617 2,586 (2,573)0 FSS 9630 TCO FSS 2,545 2,545 2,507 (2,494)0 930 FSS-1 400515 TETCO FSS1 944 (925)0 950 SS-1 400185 TETCO SS1 677 665 665 (662)0 SS-1 400221 TETCO SS1 14,390 14,137 14,137 14,065 16,433 Storage (9,807)108,410 Available AGT Swing 67,977 Total (33,718)**TENNESSEE** Receipt Receipt City Gate Net CG Available Αt TGP Inct Volumes Capacity Baseload Path Point **Deliveries** Swing Z4 CXN TGP ConnXion 4 --> 6 11,759 11,600 11,600 11,600 0 TGP 4 --> 6 **Z**4 20,106 19,835 19,835 2,400 17,435 TGP 5 --> 6 Niagara 1,077 1,067 1,067 0 1,067 Emera Energy AMA 10,757 Union>TrCan>Port->TGP Dawn 10,838 10,576 10,576 10,576 0 10,576 Union>TrCan>Port->TGP Dawn 15,061 14,948 14,697 14,697 14,697 0 14,697 DTE Energy AMA 1,016 1,010 **EDF Trading AMA** Union>TrCan>IGT->TGP Dawn 1,024 1,000 1,000 0 1,000 TGP 6 --> 6 Everett 25,053 25,000 25,000 0 25,000 TGP 6 --> 6 Freepoint AMA 0 0 Dracut 0 0 0 TGP 6 --> 6 741 741 741 741 Dracut 0 85,659 Transport 84,516 84,516 14,000 70,516 **TGP Storage** In-Hole Receipt Storage Path Point WDs **MDWQ** Capacity GSS 300168 DTI GSS 1,401 1,401 1,382 GSS 300170 DTI GSS 0 0 0 FSMA 62918 TGP FSMA 10,249 10,249 10,111 FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836 Total 95,352 Available TGP Swing 70,516

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November 2019								
			Storage Capacity	Current	Current	Balance as of		
Company	Field	Contract Number	Quantity (Dth/Yr)	MDWQ (Dth/Day)	MDIQ (Dth/Day)	October 23 2019	% Full	W/D via
Narragansett	Dominion GSS-TE	600045	1,376,324	14,337	6,431	1,312,635	%56	Tetco/AGT
Narragansett	Dominion GSS	300168	154,050	1,401	720	145,392	94%	TGP
Narragansett	Dominion GSS	300169	206,100	2,061	896	193,173	94%	DTI/Tetco/AGT
Narragansett	Dominion GSS	300170	490,340	5,324	2,291	461,276	94%	DTI/TGP
Narragansett	Dominion GSS	300171	188,814	2,617	882	175,301	83%	Tetco/AGT
Narragansett	Columbia FSS	0896	203,957	2,545	571	193,294	%56	TCO/AGT
Narragansett	Texas Eastern FSS-1	400515	56,640	944	291	52,765	%86	Tetco/AGT
Narragansett	Texas Eastern SS-1	400185	51,990	999	267	49,225	%26	AGT
Narragansett	Texas Eastern SS-1	400221	1,188,033	14,137	6,107	1,115,226	94%	AGT
Narragansett	Tennessee FS-MA	62918	210,000	10,249	1,400	187,381	%68	TGP
Narragansett	Tennessee FS-MA	501	605,343	10,920	4,036	513,010	%28	TGP

93%

4,398,678

23,960

65,200

4,731,591

Storage Totals

RHODE ISLAND MONTHLY PLAN December 2019								
	MIN DAY	AVG DAY	MAX DAY					
*4-Year Historical Sendout	65,460	188,198	361,735					
HDD	6	29	58					
*All Sales and Transportation customers. No power plants.								
**Forecasted Sendout	102,557	171,521	252,283					
HDD	16	29	43					
**Firm Sales and Transportation customers w/ NGRID Capacity.								
Forecasted Firm Transporation	24,321	36,107	48,569					
Forecasted Sales Demand	78,236	135,414	203,714					

Baseload Election - December 2019 Volume per Day (MMBtu)								
Dawn	0							
Longhaul	<u>27,000</u>							
TGP Total	27,000							
Longhaul	<u>43,000</u>							
AGT Total	43,000							
Grand Total	70,000							

Page 5 of 15

Estimat	ed Rhode	Island (Capaci	ty Break	out for De	ecember	2019		Page 5 of 15
AL CONOLIN									
ALGONQUIN			ı		01: 0 :				
Dath	Receipt	Receipt	MO	MO	City Gate	Net CG	Danaland	Available	
Path	Point	Volumes	M2	M3	Capacity	Deliveries	Baseload	Swing	
Transco Leidy->AGT	Transco	72	07.050	72	72	72	72	0	
TETCO->AGT	M2	27,252	27,252	26,794	26,657	26,657	26,657	0	
DTI->TETCO FTS->AGT	Dom SP	548	537	531	528	528	528	0	
Millen->Ramapo->AGT	Millennium	9,069		9,000	8,831	8,831	8,831	0	
Transco Leidy->AGT SCT	Transco	1,172		1,164	1,158	1,158	1,158	0	
TCO->AGT	Maumee	27,903		27,487	27,347	27,347	5,754	21,593	0
TCO->AGT	Broad Run	10,151		10,000	9,949	9,949	0	9,949	Spotlight AMA
AGT	М3	5,736		5,736	5,707	5,707	0	5,707	
TCO->AGT	Eagle	3,655		3,600	3,582	3,582	0	3,582	
TCO->AGT	Pennsburg	3,403		3,352	3,335	3,335	0	3,335	
RAMAPO->AGT	RAMAPO	9,345		9,345	9,169	9,169	0	9,169	
Remaining AGT (SCT)	M3 (SCT)	3,461		3,461	3,443	3,443	0	3,443	
AGT Citygate	AGT CG	14,100			14,100	14,100	0	14,100	Constellation Supply
		115,867		Transport	113,878	113,878	43,000	70,878	
AGT Storage			_						
	Receipt	In-Hole			Storage				
Path	Point	WDs	MDWQ	M3	Capacity				
GSS-TE 600045	DTI GSS-TE	5,644	5,644	5,549	5,521				
GSS 300169	DTI GSS	2,061	2,061	1,987	1,977				
GSS 300171	DTI GSS	2,617	2,617	2,586	2,573				
FSS 9630	TCO FSS	2,545	2,545	2,507	2,494				
FSS-1 400515	TETCO FSS1	950	944	930	925				
SS-1 400185	TETCO SS1	677	665	665	662				
SS-1 400221	TETCO SS1	14,390	14,137	14,137	14,065				
				Storage	28,217				
				Total	142,095	Available /	AGT Swing	70,878	
TENNESSEE									
TENNESSEE		.							
	Receipt	Receipt		At	City Gate	Net CG		Available	
Path	Point	Volumes		TGP Inct	Capacity	Deliveries	Baseload	Swing	
TGP ConnXion 4> 6	Z4 CXN	11,759			11,600	11,600	11,600	0	
TGP 4> 6	Z4	20,106			19,835	19,835	15,400	4,435	
TGP 5> 6	Niagara	1,077			1,067	1,067	0	1,067	
Union>TrCan>Port->TGP	Dawn	15,133	14,998	14,732	14,732	14,732	0	14,732	DTE Energy AMA
Union>TrCan>Port->TGP	Dawn	10,854	10,757	10,566	10,566	10,566	0	10,566	Emera Energy AMA
Union>TrCan>IGT->TGP	Dawn	1,026	1,017	1,010	1,000	1,000	0	1,000	EDF Trading AMA
TGP 6> 6	Everett	20,000		20,000	19,958	19,958	0	19,958	Constellation Supply
TGP 6> 6	Dracut	22,300			22,300	22,300	0	22,300	Freepoint AMA
TGP 6> 6	Everett	5,000		5,000	4,990	4,990	0	4,990	Constellation Supply
TGP 6> 6	Everett	52			52	52	0	52	
TGP 6> 6	Dracut	588			588	588	0	588	
		107,895		Transport	106,688	106,688	27,000	79,688	
TGP Storage			1		01				
Dath	Receipt	In-Hole	MDWO		Storage				
Path	Point	WDs	MDWQ		Capacity				
GSS 300168	DTI GSS	1,401	1,401		1,382				
GSS 300170	DTI GSS	5,324	5,324		5,150				
FSMA 62918	TGP FSMA	10,249	10,249		10,111				
FSMA 501	TGP FSMA	10,920	10,920	Christian	10,773				
				Storage	10,836	Available -	TGD Swine	70 600	
				Total	117,524	Available	ΓGP Swing	19,000	J

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December 2019								
			Storage Capacity	Current	Current	Balance as of		
		Contract	Quantity	MDWQ	MDIQ	November 17	%	M/D
Company	Field	Number	(Dth/Yr)	(Dth/Day)	(Dth/Day)	2019	Full	via
Narragansett	Dominion GSS-TE	600045	1,376,324	14,337	6,431	1,324,110	%96	Tetco/AGT
Narragansett	Dominion GSS	300168	154,050	1,401	720	145,597	%26	TGP
Narragansett	Dominion GSS	300169	206,100	2,061	896	193,915	94%	DTI/Tetco/AGT
Narragansett	Dominion GSS	300170	490,340	5,324	2,291	460,138	94%	DTI/TGP
Narragansett	Dominion GSS	300171	188,814	2,617	882	174,974	83%	Tetco/AGT
Narragansett	Columbia FSS	9630	203,957	2,545	340	195,298	%96	TCO/AGT
Narragansett	Texas Eastern FSS-1	400515	56,640	944	291	54,623	%96	Tetco/AGT
Narragansett	Texas Eastern SS-1	400185	51,990	999	267	50,422	%26	AGT
Narragansett	Texas Eastern SS-1	400221	1,188,033	14,137	6,107	1,111,881	94%	AGT
Narragansett	Tennessee FS-MA	62918	210,000	10,249	1,400	171,070	81%	TGP
Narragansett	Tennessee FS-MA	501	605,343	10,920	4,036	554,995	%76	TGP

94%

4,437,023

23,729

65,200

4,731,591

Storage Totals

RHODE ISLAND N January		<u>PLAN</u>						
	MIN DAY	AVG DAY	MAX DAY					
*4-Year Historical Sendout 104,122 226,056 388,576								
HDD 6 34 68								
*All Sales and Transportation customers. No power plants.								
**Forecasted Sendout	118,051	207,282	313,553					
HDD	19	35	54					
**Firm Sales and Transportation customers w/ NGRID Capacity.								
Forecasted Firm Transporation	26,313	40,216	54,859					
Forecasted Sales Demand	91,738	167,066	258,694					

Baseload Election - January 2020 Volume per Day (MMBtu)									
Dawn	0								
Longhaul	<u>30,000</u>								
TGP Total	30,000								
Longhaul	<u>50,000</u>								
AGT Total	50,000								
Grand Total	80,000								

Page 8 of 15

Estima	ated Rhode	e Island	Capac	city Brea	kout for J	lanuary 2	020		Page 8 of 15
ALGONQUIN									
ALCONGOIN	Receipt	Receipt	1		City Gate	Net CG		Available	
Path	Point	Volumes	M2	МЗ	Capacity	Deliveries	Baseload	Swing	
Transco Leidy->AGT	Transco	73	IVIZ	73	72	72	72	0	
TETCO->AGT	M2	27,379	27,379	26,708	26,454	26,454	26,454	0	
Millen->Ramapo->AGT	Millennium	9,069	21,010	9,000	8,645	8,645	8,645	0	
Transco Leidy->AGT SCT	Transco	1,175		1,167	1,156	1,156	1,156	0	
TCO->AGT	Maumee	27,888		27,472	27,211	27,211	13,673	13,538	
TCO->AGT	Broad Run	10,151		10,000	9,905	9,905	0	9,905	Spotlight AMA
AGT	M3	6,828		6,828	6,763	6,763	0	6,763	opouigner
TCO->AGT	Eagle	3,655		3,600	3,566	3,566	0	3,566	
TCO->AGT	Pennsburg	3,406		3,355	3,323	3,323	0	3,323	
RAMAPO->AGT	RAMAPO	9,739		9,739	9,355	9,355	0	9,355	
Remaining AGT (SCT)	M3 (SCT)	3,478		3,478	3,445	3,445	0	3,445	
AGT Citygate	AGT CG	14,100		3, 1. 3	13,976	13,976	0	13,976	Constellation Supply
7101 Okygato	7101 00	116,941		Transport	113,871	113,871	50,000	63,871	Concionation Cappiy
AGT Storage					,				
Dath	Receipt	In-Hole	MDWQ	MO	Storage				
Path GSS-TE 600045	Point DTI GSS-TE	WDs		M3	Capacity	4			
GSS-1E 600045 GSS 300169	DTI GSS	5,688	5,688 2,061	5,549	5,496 1,952				
GSS 300169 GSS 300171	DTI GSS	2,061		1,971					
FSS 9630	TCO FSS	2,617	2,617	2,574	2,550				
FSS-1 400515	TETCO FSS1	2,545 949	2,545 944	2,507 924	2,483				
SS-1 400315	TETCO PSS1	676	665	924 665	915 659				
SS-1 400165 SS-1 400221	TETCO SS1	14,367	14,137	14,137	14,003				
33-1 400221	12100 331	14,307	14,137	Storage	28,058				
				Total	141,929	Available /	AGT Swing	63,871	
TENNEGGE									
TENNESSEE		l			0'' 0 '	L NI + 00	ı	A '1 1 1	
D-4	Receipt	Receipt		At	City Gate	Net CG	D I I	Available	
Path	Point	Volumes		TGP Inct	Capacity	Deliveries	Baseload	Swing	
TGP ConnXion 4> 6	Z4 CXN	11,759			11,600	11,600	11,600	0	
TGP 4> 6	Z4	19,803			19,536	19,536	18,400	1,136	
TGP 5> 6 Union>TrCan>Port->TGP	Niagara	1,077	14.000	14.005	1,067	1,067	0	1,067	DTC Charmy AMA
Union>TrCan>Port->TGP	Dawn Dawn	15,151 10,867	14,998 10,757	14,695 10,539	14,695 10,539	14,695 10,539	0	14,695 10,539	DTE Energy AMA Emera Energy AMA
Union>TrCan>IGT->TGP	Dawn	1,034	1,024	1,010	1,000	1,000	0	1,000	EDF Trading AMA
TGP 6> 6	Everett	20,000	1,024	20,000	19,958	19,958	0	19,958	Constellation Supply
TGP 6> 6	Dracut	22,300		20,000	22,300	22,300		22,300	Freepoint AMA
TGP 6> 6	Everett	5,000		5,000	4,990	4,990	0	4,990	Constellation Supply
TGP 6> 6	Everett	52		5,500	4,990 52	52	0	52	Constellation Supply
TGP 6> 6	Dracut	488			488	488	0	488	
101 0 20	Didodt	107,531		Transport	106,225	106,225	30,000	76,225	
TGP Storage	D''	lm II-I-			04				
Path	Receipt Point	In-Hole WDs	MDWQ		Storage Capacity				
GSS 300168	DTI GSS	1,401	1,401		1,382				
GSS 300170	DTI GSS	5,324	5,324		5,150				
FSMA 62918	TGP FSMA	10,249	10,249		10,111				
FSMA 501	TGP FSMA	10,920	10,920		10,773				
				Storage	10,836				
				Total	117,061	Available 7	TGP Swing	76,225	

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January 2020								
			Storage Capacity	Current	Current	Balance as of		
		Contract	Quantity	MDWQ (154)	MDIQ (Dth/D2v)	December 16	% [M/D
company	rieid	Number	(Dtn/ Yr)	(Dill/Day)	(Dill/Day)	2019	III	VIa
Narragansett	Dominion GSS-TE	600045	1,376,324	14,337	6,431	1,291,168	94%	Tetco/AGT
Narragansett	Dominion GSS	300168	154,050	1,401	720	131,974	%98	TGP
Narragansett	Dominion GSS	300169	206,100	2,061	963	182,874	%68	DTI/Tetco/AGT
Narragansett	Dominion GSS	300170	490,340	5,324	2,291	433,011	%88	DTI/TGP
Narragansett	Dominion GSS	300171	188,814	2,617	882	165,251	%88	Tetco/AGT
Narragansett	Columbia FSS	9630	203,957	2,545	680	182,573	%06	TCO/AGT
Narragansett	Texas Eastern FSS-1	400515	56,640	944	291	51,964	%76	Tetco/AGT
Narragansett	Texas Eastern SS-1	400185	51,990	999	267	48,756	94%	AGT
Narragansett	Texas Eastern SS-1	400221	1,188,033	14,137	6,107	1,060,214	%68	AGT
Narragansett	Tennessee FS-MA	62918	210,000	10,249	1,400	165,007	%62	TGP
Narragansett	Tennessee FS-MA	501	605,343	10,920	4,036	549,415	91%	TGP

%06

4,262,207

24,069

65,200

4,731,591

Storage Totals

RHODE ISLAND N February		<u>PLAN</u>					
	MIN DAY	AVG DAY	MAX DAY				
*4-Year Historical Sendout	77,478	200,276	368,125				
HDD 8 29 62							
*All Sales and Transportation customers. No power plants.							
**Forecasted Sendout	119,901	202,638	282,860				
HDD	17	34	49				
**Firm Sales and Transportation customers w/ NGRID Capacity.							
Forecasted Firm Transporation	26,856	39,939	51,041				
Forecasted Sales Demand	93,045	162,699	231,819				

Baseload Election - February 2020 Volume per Day (MMBtu)									
Dawn	0								
Longhaul	<u>26,000</u>								
TGP Total	26,000								
Longhaul	<u>44,000</u>								
AGT Total	44,000								
Grand Total	70,000								

Page 11 of 15

Estima	ted Rhode	Island	Capac	ity Break	cout for F	ebruary 2	2020		Page 11 of 15
ALGONQUIN									
ALGONQUIN	Receipt	Receipt			City Gate	Net CG		Available	
Path	Point	Volumes	M2	M3	Capacity	Deliveries	Baseload	Swing	
Transco Leidy->AGT	Transco	73		73	72	72	72	0	
Millen->Ramapo->AGT	Millennium	9,069		9,000	8,645	8,645	8,645	0	
DTI->TETCO FTS->AGT	Dom SP	548	537	528	523	523	523	0	
TETCO->AGT	M2	27,378	27,378	26,707	26,453	26,453	26,453	0	
Transco Leidy->AGT SCT	Transco	1,175		1,167	1,156	1,156	1,156	0	
TETCO Leidy-Dominion	TET-Leidy	0		0	0	0	0	0	
TCO->AGT	Maumee	27,892		27,476	27,215	27,215	7,151	20,064	
TCO->AGT	Broad Run	10,151		10,000	9,905	9,905	0	9,905	Spotlight AMA
AGT	M3	6,298		6,298	6,238	6,238	0	6,238	
Ram/Mah -> AGT	M3	6,950		6,950	6,884	6,884	0	6,884	
TCO->AGT	Eagle	0		0	0	0	0	0	
TCO->AGT	Pennsburg	0		0	0	0	0	0	
RAMAPO->AGT	RAMAPO	9,739		9,739	9,355	9,355	0	9,355	
TETCO -> AGT SCT	M2	0	0	0	0	0	0	0	
TETCO SCT -> AGT SCT	M2 (SCT)	0	0	0	0	0	0	0	
Remaining AGT (SCT)	M3 (SCT)	3,478		3,478	3,445	3,445	0	3,445	Constallation Cumply
AGT Citygate	AGT CG	14,100 116,851		Transport	13,976 113,867	13,976	44,000	13,976	Constellation Supply
AGT Storage		110,001		папъроп	113,007	113,867	44,000	69,867	
	Receipt	In-Hole			Storage				
Path	Point	WDs	MDWQ	M3	Capacity				
GSS-TE 600045	DTI GSS-TE	5,688	5,688	5,549	5,496				
GSS 300169	DTI GSS	2,061	2,061	1,971	1,952				
GSS 300171	DTI GSS	2,617	2,617	2,574	2,550				
FSS 9630	TCO FSS	2,545	2,545	2,507	2,483				
FSS-1 400515	TETCO FSS1	949	944	924	915				
SS-1 400185	TETCO SS1	676	665	665	659				
SS-1 400221	TETCO SS1	14,367	14,137	14,137	14,003				
				Storage Total	28,058 141,925	Available	AGT Swing	69,867	
				Total	141,020	/ (Valiable /	tor owing	00,007	
TENNESSEE									
	Receipt	Receipt		At	City Gate	Net CG		Available	
Path	Point	Volumes		TGP Inct	Capacity	Deliveries	Baseload	Swing	
TGP ConnXion 4> 6	Z4 CXN	11,759			11,600	11,600	11,600	0	
TGP 4> 6	Z4	19,802			19,535	19,535	14,400	5,135	
TGP 5> 6	Niagara	1,077	44.000	44704	1,067	1,067	0	1,067	DTE E
Union>TrCan>Port->TGP	Dawn	15,176	14,999	14,721	14,721	14,721	0	14,721	DTE Energy AMA
Union>TrCan>Port->TGP	Dawn	10,884	10,757	10,557	10,557	10,557	0	10,557	Emera Energy AMA
Union>TrCan>IGT->TGP TGP 6> 6	Dawn	1,034 20,000	1,022	1,010 20,000	1,000	1,000	0	1,000	EDF Trading AMA
TGP 6> 6	Everett Dracut	20,000		20,000	19,958 22,300	19,958 22,300	0 0	19,958 22,300	Constellation Supply Freepoint AMA
TGP 6> 6	Everett	5,000		5,000	4,990	4,990	0	4,990	Constellation Supply
TGP 6> 6	Everett	5,000		3,000	4,990 52	4,990 52	0	4,990 52	Constellation Supply
TGP 6> 6	Dracut	431			431	431	0	431	
101 0 7 0	Bracat	107,515		Transport	106,211	106,211	26,000	80,211	
TGP Storage					·	,	.,	,	
5	Receipt	In-Hole			Storage				
Path	Point	WDs	MDWQ		Capacity				
GSS 300168	DTI GSS	1,401	1,401		1,382				
GSS 300170	DTI GSS	5,324	5,324		5,150				
FSMA 62918	TGP FSMA	10,249	10,249		10,111				
FSMA 501	TGP FSMA	10,920	10,920	Storage	10,773 10,836				
				Total	117,047	Available -	ΓGP Swing	80,211	
				i Utal	117,047	Available	. Or Owing	00,211	1

February 2020								
			Storage Capacity	Current	Current	Balance as of		
		Contract	Quantity	MDWQ	MDIQ	January 19	%	M/D
Company	Field	Number	(Dth/Yr)	(Dth/Day)	(Dth/Day)	2020	Full	via
Narragansett	Dominion GSS-TE	600045	1,376,324	14,337	6,431	1,224,799	%68	Tetco/AGT
Narragansett	Dominion GSS	300168	154,050	1,401	720	115,584	75%	TGP
Narragansett	Dominion GSS	300169	206,100	2,061	896	165,472	%08	DTI/Tetco/AGT
Narragansett	Dominion GSS	300170	490,340	5,324	2,291	379,622	%22	DTI/TGP
Narragansett	Dominion GSS	300171	188,814	2,617	882	144,308	%92	Tetco/AGT
Narragansett	Columbia FSS	0896	203,957	2,545	816	152,192	75%	TCO/AGT
Narragansett -	Texas Eastern FSS-1	400515	56,640	944	291	48,210	82%	Tetco/AGT
Narragansett -	Texas Eastern SS-1	400185	51,990	999	267	46,167	86%	AGT
Narragansett -	Texas Eastern SS-1	400221	1,188,033	14,137	6,107	1,030,518	87%	AGT
Narragansett -	Tennessee FS-MA	62918	210,000	10,249	1,400	182,435	87%	TGP
Narragansett -	Tennessee FS-MA	501	605,343	10,920	4,036	531,533	88%	TGP

85%

4,020,840

24,205

65,200

4,731,591

Storage Totals

RHODE ISLAND N March		<u>PLAN</u>	
	MIN DAY	AVG DAY	MAX DAY
*4-Year Historical Sendout	72,422	180,254	304,852
HDD	2	26	48
*All Sales and Transportation customers. No power plants.			
**Forecasted Sendout	94,634	153,272	230,080
HDD	14	26	39
**Firm Sales and Transportation customers w/ NGRID Capacity.			
Forecasted Firm Transporation	21,872	32,437	44,515
Forecasted Sales Demand	72,762	120,835	185,565

Baseload Election Volume per Da	
Dawn	0
Longhaul	<u>22,000</u>
TGP Total	22,000
Longhaul	<u>35,000</u>
AGT Total	35,000
Grand Total	57,000

Page 14 of 15

Path	Estim	ated Rhoc	le Island	d Capa	city Brea	akout for	March 20	20		Page 14 of 15
Path	AL GONOLIIN									
Path	ALGUNQUIN	Receipt	Doggint	ı		City Coto	Not CC	1	Avoilable	
Transco Leidy-AGT	Poth			Mo	Ma			Pacaload		
DTI-STETCO FTS-AGT				IVIZ						1
TCO-AGT Maumes 27,818	-			F27						
TETCO-AGT				557						
TCO-AGT				27 270					-	
Millennium				21,310						Cnotlight AMA
AGT Ram/Mah → AGT TCO → AGT TCO → AGT Eagle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										Spotlight AlviA
RamMah - AGT										
TCO->AGT Eagle 0										
TCO->AGT Pennsburg O										
RAMAPO->AGT ST		_								
Transco Leidy->AGT SCT Maj (SCT) AGT CG 14,100 1,166 3,478 3,478 3,445 3,445 0 3,445 3,						-				
Remaining AGT (SCT)										
AGT Citygate	-									
Transport 113,855 113,855 35,000 78,855 78,85	· ' '				ა,4/ბ					Constallation Supply
Path	AGT Citygate	AGTCG			Transport					Constellation Supply
Path	AGT Storage		116,839		rransport	113,855	113,855	35,000	78,833	
GSS-TE 600045 DTI GSS		Receipt	In-Hole			Storage				1
CSS 300169		Point	WDs	MDWQ	M3	Capacity				
SS 300171	GSS-TE 600045	DTI GSS-TE	5,684	5,684	5,549	5,496				
FSS 9630	GSS 300169	DTI GSS	2,061	2,061	1,987	1,968				
FSS-1 400155 SS-1 400185 TETCO SS1 FTCO	GSS 300171	DTI GSS	2,617	2,617	2,574	2,550				
SS-1 400185 TETCO SS1 676 665 665 665 659 14,367 14,137 14,137 14,003 14,003 78,855	FSS 9630	TCO FSS	2,545	2,545	2,507	2,483				
SS-1 400221 TETCO SS1 14,367 14,137 14,137 14,003 28,074 Total 141,929 Available AGT Swing 78,855	FSS-1 400515	TETCO FSS1	949	944	924	915				
Storage Total 141,929 Available AGT Swing 78,855	SS-1 400185	TETCO SS1	676	665	665	659				
Total 141,929 Available AGT Swing 78,855	SS-1 400221	TETCO SS1	14,367	14,137	14,137					
Receipt										
Path Receipt Point Receipt Volumes At TGP Inct City Gate Capacity Net CG Deliveries Baseload Available Swing TGP ConnXion 4 → 6 TGP 5 → 6 TGP 5 → 6 TGP 5 → 6 Niagara 1,077 24 19,702 TGP 5 → 6 Niagara 1,077 11,600 19,436 10,400 9,036 10,400 9,036 10,607 1,067 0 1,067 0 1,067 0 1,067 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 1,067 0 10,591					Total	141,929	Available /	AGT Swing	78,855	
Path	TENNESSEE									
TGP ConnXion 4> 6 Z4 CXN 11,759 11,600 11,600 11,600 9,036 TGP 4> 6 Z4 19,702 19,436 19,436 10,400 9,036 TGP 5> 6 Niagara 1,077 1,067 1,067 0 1,067 Union>TrCan>Port->TGP Dawn 15,171 14,999 14,768 14,768 0 14,768 DTE Energy AMA Union>TrCan>Port->TGP Dawn 10,880 10,757 10,591 10,591 0 10,591 Emera Energy AMA Union>TrCan>IGT->TGP Dawn 1,034 1,022 1,009 999 999 0 999 EDF Trading AMA TGP 6> 6 Everett 20,000 19,958 19,958 0 19,958 Constellation Supply TGP 6> 6 Everett 5,000 5,000 4,990 4,990 0 4,990 Constellation Supply TGP 6> 6 Dracut 354 354 0 354 0 354 GSS 300168		Receipt	Receipt		At	City Gate	Net CG		Available	
TGP 4> 6 TGP 5> 6 Z4 Niagara 19,702 1,077 19,436 1,067 19,436 1,067 10,400 1,067 9,036 1,067 10,670 1,067 DTE Energy AMA Union>TrCan>Port->TGP Union>TrCan>Port->TGP Dawn 10,880 10,757 10,591 10,591 10,591 10,591 10,591 10,591 0 10,591 10,591 10,591 0 10,591 10,591 10,591 0 10,591 10,591 10,591 0 10,591 0 10,591 0 10,591 0 10,591 0 10,591 0 10,591 <	Path	Point	Volumes		TGP Inct	Capacity	Deliveries	Baseload	Swing	
TGP 5 -> 6	TGP ConnXion 4> 6	Z4 CXN	11,759			11,600	11,600	11,600	0	
Union>TrCan>Port->TGP	TGP 4> 6	Z4	19,702			19,436	19,436	10,400	9,036	
Union>TrCan>Port->TGP Dawn 10,880 10,757 10,591 10,591 10,591 0 10,591 999 999 0 999 EDF Trading AMA 10,767 10,000	TGP 5> 6	Niagara	1,077			1,067	1,067	0	1,067	
Union>TrCan>IGT->TGP Dawn 1,034 1,022 1,009 999 999 0 999 EDF Trading AMA TGP 6> 6 Everett 20,000 20,000 19,958 19,958 0 19,958 Constellation Supply TGP 6> 6 Dracut 22,300 22,300 22,300 0 22,300 Freepoint AMA TGP 6> 6 Everett 52 52 52 0 52 TGP 6> 6 Dracut 354 Transport 106,115 106,115 22,000 84,115 TGP Storage Path Point WDs MDWQ Capacity Storage Capacity Storage Capacity Storage S	Union>TrCan>Port->TGP	Dawn	15,171					0		
TGP 6> 6								0		
TGP 6> 6				1,022						
TGP 6> 6					20,000					
TGP 6> 6		Dracut								
TGP 6> 6 Dracut 354 354 354 0 354 TGP Storage Receipt Point WDs MDWQ GSS 300168 DTI GSS 1,401 1,401 1,382 GSS 300170 DTI GSS 5,324 5,324 5,324 FSMA 62918 TGP FSMA 10,249 10,249 10,773 Storage 10,836 Storage 10,836		Everett			5,000			0	-	Constellation Supply
TGP Storage Receipt In-Hole Point WDs MDWQ Capacity		Everett						0		
TGP Storage Path Point WDs MDWQ Capacity GSS 300168 DTI GSS 1,401 1,401 1,382 GSS 300170 DTI GSS 5,324 5,324 5,150 FSMA 62918 TGP FSMA 10,249 10,249 10,111 FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836	TGP 6> 6	Dracut								
Path Receipt Point In-Hole WDs MDWQ Capacity GSS 300168 DTI GSS 1,401 1,401 1,382 1,382 5,150 GSS 300170 DTI GSS 5,324 5,324 5,324 5,150 5,150 FSMA 62918 TGP FSMA 10,249 10,249 10,111 10,773 10,773 Storage 10,836	TGP Storage		107,329		Transport	106,115	106,115	22,000	84,115	
Path Point WDs MDWQ Capacity GSS 300168 DTI GSS 1,401 1,401 GSS 300170 DTI GSS 5,324 5,324 FSMA 62918 TGP FSMA 10,249 10,249 FSMA 501 TGP FSMA 10,920 10,920 Storage 10,836	. J. Jiorago	Receipt	In-Hole			Storage				i
GSS 300168 DTI GSS 1,401 1,401 1,382 GSS 300170 DTI GSS 5,324 5,324 5,150 FSMA 62918 TGP FSMA 10,249 10,249 10,111 FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836	Path			MDWQ						
GSS 300170 DTI GSS 5,324 5,324 5,150 FSMA 62918 TGP FSMA 10,249 10,249 10,111 FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836										
FSMA 62918 TGP FSMA 10,249 10,249 10,111 FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836										
FSMA 501 TGP FSMA 10,920 10,920 10,773 Storage 10,836										
Storage 10,836										
					Storage					
					Total	116,951	Available 7	TGP Swing	84,115	

March 2020

			Storage					
			Capacity	Current	Current	Balance as of		
		Contract	Quantity	MDWQ	MDIQ	February 16	%	M/D
Company	Field	Number	(Dth/Yr)	(Dth/Day)	(Dth/Day)	2020	Full	via
Narragansett	Dominion GSS-TE	600045	1,376,324	14,337	6,431	1,119,025	81%	Tetco/AGT
Narragansett	Dominion GSS	300168	154,050	1,401	720	89,048	%89	TGP
Narragansett	Dominion GSS	300169	206,100	2,061	896	144,251	%02	DTI/Tetco/AGT
Narragansett	Dominion GSS	300170	490,340	5,324	2,291	325,971	%99	DTI/TGP
Narragansett	Dominion GSS	300171	188,814	2,617	885	121,619	%49	Tetco/AGT
Narragansett	Columbia FSS	0896	203,957	2,545	816	121,652	%09	TCO/AGT
Narragansett	Texas Eastern FSS-1	400515	56,640	944	291	43,661	%22	Tetco/AGT
Narragansett	Texas Eastern SS-1	400185	51,990	999	797	44,324	%58	AGT
Narragansett	Texas Eastern SS-1	400221	1,188,033	14,137	6,107	970,174	%78	AGT
Narragansett	Tennessee FS-MA	62918	210,000	10,249	1,400	165,207	%62	TGP
Narragansett	Tennessee FS-MA	501	605,343	10,920	4,036	538,093	%68	TGP

78%

3,683,025

24,205

65,200

4,731,591

Storage Totals

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-9

Request:

Please identify the current Company fuel allowance percentage assessed to transportation customers for company-use and lost-and-unaccounted-for gas and explain how the charge is determined and when it is updated. Please explain whether any transportation customers receive a discount to the generally applicable Company fuel allowance.

Response:

The Company's current fuel allowance percentage is 3.02%, and is available on its external website.¹ This percentage is updated annually on November 1 by comparing the Company's aggregated wholesale throughput at its city gates to the aggregated retail throughput at its customers' meters for the 12-month period September through August. The Company then averages the most recent five years of fuel allowance percentages to calculate the fuel allowance to be applied in the upcoming GCR year (November – October).

The Company does not assess the Company fuel allowance to transportation customers directly but instead assesses the fuel allowance percentage on marketer nominations at the Company's citygate, with the 'net' volume delivered to transportation customers' service locations. There are no discounts to the generally applicable Company fuel allowance provided to marketers, and the Company is not aware of how marketers pass on the cost of the allowance to their customers.

¹ https://www.nationalgridus.com/media/pdfs/billing-payments/rigas_firm_rates.pdf

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-10

Request:

Please update the response to DIV 1-15 in Docket No. 4963 as applicable.

Response:

Please see Attachment DIV 1-10.

Contract	Pipeline	Primary Point	Platts Index - Primary Location	Additional Index
9001	ALGONQUIN	Hanover-TCO	Texas Eastern - M3	
90106	ALGONQUIN	Hanover-TCO	Texas Eastern - M3	
90106	ALGONQUIN	Lambertville	Texas Eastern - M3	
90106	ALGONQUIN	Centerville	Texas Eastern - M3	
90107	ALGONQUIN	Hanover-TCO	Texas Eastern - M3	
933005	ALGONQUIN	Lambertville	Texas Eastern - M3	
93001ESC	ALGONQUIN	Lambertville	Texas Eastern - M3	
93001ESC	ALGONQUIN	Hanover-Tetco	Texas Eastern - M3	
93011E	ALGONQUIN	Lambertville	Texas Eastern - M3	
93011E	ALGONQUIN	Hanover-Tetco	Texas Eastern - M3	
93401S	ALGONQUIN	Lambertville	Texas Eastern - M3	
96004SC	ALGONQUIN	Centerville	Texas Eastern - M3	
96004SC	ALGONQUIN	Lambertville	Texas Eastern - M3	
9B105	ALGONQUIN	Lambertville	Texas Eastern - M3	
9S100S	ALGONQUIN	Lambertville	Texas Eastern - M3	
9W009E	ALGONQUIN	Lambertville	Texas Eastern - M3	
9W009E	ALGONQUIN	Hanover-Tetco	Texas Eastern - M3	
510801	ALGONQUIN	Ramapo	Texas Eastern - M3	
510985	ALGONQUIN	G-12 System	No Index	
31520	COLUMBIA	Pennsburg	Columbia Gas, Appalachia	ICE Columbia Gas, A04 Pool
31522	COLUMBIA	Eagle	Columbia Gas, Appalachia	ICE Columbia Gas, A04 Pool
31523	COLUMBIA	Broad Run	Columbia Gas, Appalachia	ICE Columbia Gas, A04 Pool
31524	COLUMBIA	Maumee	Columbia Gas, Appalachia	ICE Columbia Gas, A04 Pool, ICE Columbia Gas, A06 Pool
9631	COLUMBIA	TCO Storage Point	No Index	
100118	DOMINION	Tetco - Oakford	Texas Eastern - M2, receipts	
100118	DOMINION	Title Transfer Point - South	Dominion, South Point	
100118	DOMINION	DETI STRG Point	No Index	
700086	DOMINION	DETI STRG Point	No Index	
700087	DOMINION	DETI STRG Point	No Index	
700087	DOMINION	Title Transfer Point - South	Dominion, South Point	
700087	DOMINION	Title Transfer Point - North	Dominion, North Point	
50001	IROQUOIS	Waddington	Iroquois, receipts	
210165	MILLENNIUM	Corning	No Index	Millennium, East receipts
210203	PORTLAND	Pittsburg (East Hereford)	No Platts Index	ICE PNGTS
225805	PORTLAND	Pittsburg (East Hereford)	No Platts Index	ICE PNGTS
10807	TENNESSEE	Ellisburg	No Index	Tennessee, zone 4 - 313 Pool
10807	TENNESSEE	Northern Storage	No Index	Tennessee, zone 4 - 313 Pool

Contract	Pipeline	Primary Point	Platts Index - Primary Location	Additional Index
39173	TENNESSEE	TC - Niagara	Niagara	
1597	TENNESSEE	Zone 0 South	Tennessee, Zone 0	Tennessee, zone 4 - 200 Leg
1597	TENNESSEE	Zone 0 North	Tennessee, Zone 0	Tennessee, zone 4 - 200 Leg
1597	TENNESSEE	Zone 1 100 Leg	Tennessee, Zone 1	Tennessee, zone 4 - 200 Leg
1597	TENNESSEE	Zone L 500L	Tennessee, Louisiana, 500 Leg	Tennessee, zone 4 - 200 Leg
1597	TENNESSEE	Zone L 800L	Tennessee, Louisiana, 800 Leg	Tennessee, zone 4 - 200 Leg
62930	TENNESSEE	Dracut	Dracut, Mass.	Tennessee, Zone 6, delivered North
64025	TENNESSEE	Zone 0 South	Tennessee, Zone 0	Tennessee, zone 4 - 200 Leg
64026	TENNESSEE	Zone 0 South	Tennessee, Zone 0	Tennessee, zone 4 - 200 Leg
95345	TENNESSEE	IGT - Wright	Iroquois, zone 1	
330580	TENNESSEE	Distrigas	No Index	Tennessee, Zone 6, delivered North
330580	TENNESSEE	Dracut	Dracut, Mass.	Tennessee, Zone 6, delivered North
330581	TENNESSEE	Distrigas	No Index	Tennessee, Zone 6, delivered North
349449	TENNESSEE	Dracut	Dracut, Mass.	Tennessee, Zone 6, delivered North
2943	TENNESSEE	LMS-MA	No Index	
330844	TETCO	DTI - Leidy	Texas Eastern - M3	
330845	TETCO	DTI - Leidy	Texas Eastern - M3	
330867	TETCO	Chambersburg	Texas Eastern - M3	
330867	TETCO	Lambertville	Texas Eastern - M3	
330870	TETCO	Chambersburg	Texas Eastern - M3	
330870	TETCO	Lambertville	Texas Eastern - M3	
330907	TETCO	Chambersburg	Texas Eastern - M3	
330907	TETCO	Lambertville	Texas Eastern - M3	
331722	TETCO	Hanover-Tetco	Texas Eastern - M3	
331722	TETCO	Lambertville	Texas Eastern - M3	
331722	TETCO	DTI - Oakford	Texas Eastern - M2, receipts	
331801	TETCO	Hanover-Tetco	Texas Eastern - M3	
331801	TETCO	Lambertville	Texas Eastern - M3	
331801	TETCO	DTI - Waynesburg	Texas Eastern - M2, receipts	
331801	TETCO	DTI - Somerset	Texas Eastern - M2, receipts	
331801	TETCO	DTI - Oakford	Texas Eastern - M2, receipts	
331801	TETCO	DTI - Leidy	Texas Eastern - M3	
331802	TETCO	Hanover-Tetco	Texas Eastern - M3	
331802	TETCO	Lambertville	Texas Eastern - M3	
331802	TETCO	DTI - Waynesburg	Texas Eastern - M2, receipts	
331802	TETCO	DTI - Somerset	Texas Eastern - M2, receipts	
331802	TETCO	DTI - Oakford	Texas Eastern - M2, receipts	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-10 Page 3 of 3

Contract	Pipeline	Primary Point	Platts Index - Primary Location	Additional Index
331802	TETCO	DTI - Leidy	Texas Eastern - M3	
331819	TETCO	DTI - Oakford	Texas Eastern - M2, receipts	
331819	TETCO	Lambertville	Texas Eastern - M3	
331819	TETCO	Hanover-Tetco	Texas Eastern - M3	
800156	TETCO	No location		Texas Eastern - M2, receipts, STX, ELA, ETX, WLA, M1 30 in.
800303	TETCO	No location		Texas Eastern - M2, receipts, STX, ELA, ETX, WLA, M1 30 in.
800440	TETCO	No Location		
42386	TRANSCANADA	Union Parkway		
58577	TRANSCANADA	Union Parkway		
9081767	TRANSCO	Wharton - National Fuel	Transco, Leidy Line receipt	
M12164	UNION	Parkway		
M12274	UNION	Dawn - TCPL	Dawn, Ontario	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests
Issued on August 19, 2020

Division 1-11

Request:

Please provide a first-of-the month index price for the period April 2019 through July 2020 for each pipeline point location the Company purchased gas at any time during the period April 2019 through July 2020.

Response:

Please see the Excel spreadsheet attached as Attachment Division 1-11 for the requested first-of-the-month index prices.

	Pipeline	Location	Price
	Transco	Leidy	\$ 2.420
A 10	Tetco	M2	\$ 2.400
Apr-19	MPL	East Pool	\$ 2.380
	Tennessee	Sta 219	\$ 2.530
	Transco	Leidy	\$ 2.040
	Tetco	M2	\$ 2.110
May-19	MPL	East Pool	\$ 1.970
	Tennessee	Sta 219	\$ 2.300
	Transco	Leidy	\$ 2.170
1 . 10	Tetco	M2	\$ 2.150
Jun-19	MPL	East Pool	\$ 2.130
	Tennessee	Sta 219	\$ 2.320
	Transco	Leidy	\$ 1.910
1.1.40	Tetco	M2	\$ 1.900
Jul-19	MPL	East Pool	\$ 1.860
	Tennessee	Sta 219	\$ 2.000
	Transco	Leidy	\$ 1.720
A 10	Tetco	M2	\$ 1.790
Aug-19	MPL	East Pool	\$ 1.650
	Tennessee	Sta 219	\$ 1.870
	Transco	Leidy	\$ 1.610
Con 10	Tetco	M2	\$ 1.560
Sep-19	MPL	East Pool	\$ 1.520
	Tennessee	Sta 219	\$ 1.840
	Transco	Leidy	\$ 1.330
Oct-19	Tetco	M2	\$ 1.330
	Tennessee	Sta 219	\$ 1.890
	Transco	Leidy	\$ 2.030
Nov-19	Tetco	M2	\$ 1.900
	Tennessee	Sta 219	\$ 2.350
	Tetco	M2	\$ 2.350 \$ 2.040
Doc 10	MPL	East Pool	\$ 2.050
Dec-19	TCO	Pool	\$ 2.130
	Tennessee	Sta 219	\$ 2.320
	Transco	Leidy	\$ 1.750
	Tetco	M2	\$ 1.740
	MPL	East Pool	\$ 1.760
Jan-20	TCO	Pool	\$ 1.820
	Tennessee	Sta 219	\$ 1.990
	Tetco	M3	\$ 3.350
	Algonquin	Ramapo	\$ 3.350
	Transco	Leidy	\$ 1.490
	Dominion	South Point	\$ 1.460

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-11 Page 2 of 2

-			
Feb-20	Tetco	M2	\$ 1.460
	TCO	Pool	\$ 1.530
	Tennessee	Sta 219	\$ 1.670
	Transco	Leidy	\$ 1.460
	Dominion	South Point	\$ 1.460
Mar-20	Tetco	M2	\$ 1.450
	TCO	Pool	\$ 1.550
	Tennessee	Sta 219	\$ 1.620
	Transco	Leidy	\$ 1.180
Apr-20	Tetco	M2	\$ 1.170
	Tennessee	Sta 219	\$ 1.390
	Transco	Leidy	\$ 1.410
May-20	Tetco	M2	\$ 1.420
	Tennessee	Sta 219	\$ 1.610
	Transco	Leidy	\$ 1.200
Jun-20	Tetco	M2	\$ 1.240
	Tennessee	Sta 219	\$ 1.430
	Transco	Leidy	\$ 1.150
Jul-20	Tetco	M2	\$ 1.120
	Tennessee	Sta 219	\$ 1.270

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-12

Request:

For the 12-month period April 2019 through July 2020, please provide:

- a. A monthly history of storage injections and withdrawals for each of the Company's LNG facilities (including temporary/portable facilities);
- b. Applicable injection and withdrawal prices; and
- c. End-of-month storage inventory balances.

Response:

Please see the Excel sheet attached as Attachment DIV 1-12 for the requested information.

ſ									1										
Date Apr-19	Inject price Withdraw price	Storage Field	Storage Category	VOLUME Opening balance	INJECT Adjustments NFT	Injection Trucking	WITHDR Withdrawal Roiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	VOLUME Ending balance		\$ AMOUNT Opening Balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	\$ AMOUNT Ending Balance
	\$ - \$ - \$ 6.639 \$ 5.106	CUMBERLAND EXETER	Market Market	0 184,109	0 189	0 6.757	0 3,307	0 0	0.0 0.0	0.0 0.0	0 187,748		\$0.00 \$924,316.19	(\$0.00) \$18,653.77	\$0.00 \$ \$21.081.84 \$	6,380.64	\$0.00 \$16.886.97	\$0.00 \$0.00	\$0.00 \$953,545.46
	\$ (83.515) \$ 5.106 \$ 4.067 \$ 5.106	PROVIDENCE Total LNG	Market	550,465 734,574		6,757.0	12,707	1,039 1,039.0	0.0	0.0	536,923		\$2,834,168.52 \$3,758,484,71	(\$16,642.97)	\$0.00 \$ \$21,081.84	(394.15) \$5,986.49	\$64,887.44 \$81,774.42	\$5,305.58 \$5,305.58	\$2,746,938.38 \$3,700,483.84
•				,		2,12112	10,01110	,,,,,,,,,,,			12 42 110			V 2,01000	V 2.1,003.001	V 0,000.10	+ 23,53 m.2	V 5,555.00	
May-19		Storage Field	Storage Category	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	#DIV/0! #DIV/0! \$ (6.687) \$ 5.027	CUMBERLAND EXETER	Market Market	0 187,748	0 (439)	0	0 3,200	0	0.0 0.0	0.0 0.0	0 184,109		\$0.00 \$953,545.46	(\$0.00) \$2,935.38	\$0.00 \$ \$0.00 \$		\$0.00 \$16,086.30	\$0.00 \$0.00	\$0.00 \$940,394.54
	\$ 3.711 \$ 5.027 \$ 3.807 \$ 5.027	PROVIDENCE Total LNG	Market	536,923 724,671	280 (159.0)	47,379 47,379.0	16,274 19,474.0	0.0	0.0	0.0	568,308 752,417.0		\$2,746,938.38 \$3,700,483.84	(\$3,747.30) (\$811.92)	\$139,815.43 \$ \$139,815.43	40,784.75 \$40,784.75	\$81,808.89 \$97,895.19	\$0.00 \$0.00	\$2,841,982.37 \$3,782,376.91
				0.0									\$0.00						
Jun-19	#DIV/0! #DIV/0!	Storage Field CUMBERLAND	Storage Category Market	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening Balance \$0.00	Adjustments (fo. oo)	Injections	Trucking Charges	Withdrawal Boiloff \$0.00	Withdrawal Vapor	Ending Balance
	\$ 2.419 \$ 5.013 \$ 483.284 \$ 5.013	EXETER PROVIDENCE	Market Market	184,109 568,308	104	9,406	3,445 12,341	0	0.0	0.0	190,174 555.997	: :	\$940,394.54 \$2.841.982.37	(\$0.00) (\$14,361.51) \$15,035,12	\$28,481.37 \$ \$0.00 \$	8,882.09 (536.61)	\$17,270.63 \$61.868.46	\$0.00 \$0.00 \$0.00	\$946,125.86 \$2.794.612.42
	\$ 3.931 \$ 5.013	Total LNG	Widiket	752,417	134.0	9,406.0	15,786.0	0.0	0.0	0.0	746,171.0	(0)	\$3,782,376.91 \$0.00	\$673.61	\$28,481.37	\$8,345.48	\$79,139.09	\$0.00	\$3,740,738.28
Jul-19		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending		Opening			Trucking	Withdrawal	Withdrawal	Ending
	#DIV/0! #DIV/0!	Field CUMBERLAND	Category Market	balance 0	NET 0	Trucking 0	Boiloff 0	Vapor 0	Transfer 0.0	Usage 0.0	balance 0		Balance \$0.00	Adjustments (\$0.00)	Injections \$0.00 \$	Charges	Boiloff \$0.00	Vapor \$0.00	Balance \$0.00
	\$ 5.168 \$ 4.999 \$ 0.213 \$ 4.999	EXETER PROVIDENCE	Market Market	190,174 555,997	(63) (272)	4,578 2,657	3,545 11,907	0 0	0.0 0.0	0.0 0.0	191,144 546,475	: :	\$2,794,612.42	\$6,947.22 (\$8,626.66)	\$12,063.03 \$ \$7,001.20 \$	2,132.67	\$17,721.35 \$59,522.73	\$0.00 \$0.00	\$951,737.77 \$2,735,596.90
	\$ 3.455 \$ 4.999	Total LNG		746,171 0.0	(335.0)	7,235.0	15,452.0	0.0	0.0	0.0	737,619.0	(0)	\$3,740,738.28 \$0.00	(\$1,679.44)	\$19,064.23	\$6,455.68	\$77,244.07	\$0.00	\$3,687,334.67
		Storage Field	Storage	Opening balance	Adjustments NET	Injection	Withdrawal Boiloff	Withdrawal	Field Transfer	Fuel	Ending balance		Opening Balance	Adhiron	Injections	Trucking	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	\$ 3.061 \$ 4.910 \$ 4.508 \$ 4.910	CUMBERLAND EXETER	Category Market Market	0 191 144	(61) 37	894 3 451	0 3.488	Vapor 833 0	0.0	0.0 0.0	0 191.144	(0) -	\$0.00	(\$304.94) \$3.970.16	\$2,201.03 \$ \$8,496.36 \$		\$0.00 \$17 126 22	\$4,090.06 \$0.00	(\$1,540.01) \$950.336.86
	\$ 4.508 \$ 4.910 \$ 3.240 \$ 4.910 \$ 3.342 \$ 4.910	PROVIDENCE Total LNG	Market	546,475 737,619	888	36,626 40.971.0	12,935 16,423.0	833.0	0.0	0.0	571,054	(0)	\$2,735,596.90 \$3,687,334.67	\$3,970.16 \$653.89 \$4,319.11	\$90,173.21 \$ \$100,870.60	30,712.30 \$34,625.04	\$63,511.35 \$80,637.57	\$0.00 \$0.00 \$4,090.06	\$350,336.86 \$2,793,624.94 \$3,742,421.79
-	3 3.342 3 4.910	Total Live		0.0	004.0	40,371.0	10,423.0	033.0	0.0	0.0	702,130.0	(0)	\$0.00	\$4,515.11	\$100,070.00	\$34,023.04	400,037.37	\$4,030.00	φ3,142,421.13
Sep-19		Storage Field	Storage Category	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening Balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	#DIV/0! #DIV/0! \$ 1.687 \$ 4.898	CUMBERLAND EXETER	Market Market	0 191,144	0 (264)	0 6,857	0 3,682	0	0.0 0.0	0.0 0.0	0 194,055	(0) -	(\$1,540.01)	\$1,540.01 (\$13,108.64)	\$0.00 \$ \$17,752.77 \$	6.475.07	\$0.00 \$18,033.87	\$0.00 \$0.00	\$0.00 \$943,422.18
	\$ 61.396 \$ 4.898 \$ 3.526 \$ 4.898	PROVIDENCE Total LNG	Market	571,054 762,198	183 (81.0)	6,8 57.0	9,920 13,602.0	0.0	0.0	0.0	561,317 755,372.0	(0)	\$2,793,624.94 \$3,742,421.79	\$11,170.92 (\$397.71)	\$0.00 \$ \$17,752.77	64.57 \$6,539.63	\$48,586.64 \$66,620.51	\$0.00 \$0.00	\$2,756,273.80 \$3,699,695.98
				0.0									\$0.00						
Oct-19		Storage Field CUMBERLAND	Storage Category	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening Balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	#DIV/0! #DIV/0! \$ (14.848) \$ 4.874 \$ 3.423 \$ 4.874	CUMBERLAND EXETER PROVIDENCE	Market Market Market	194,055 561,317	(356) 2 443	0 0 14 909	3,283 11,926	0	0.0	0.0 0.0	190,416 566.743	: :	\$0.00 \$943,422.18 \$2,756,273.80	(\$0.00) \$5,285.75 \$4,936.05	\$0.00 \$ \$0.00 \$ \$41.625.93 \$		\$0.00 \$16,000.73 \$58,125,12	\$0.00 \$0.00 \$0.00	\$0.00 \$932,707.20 \$2,757,545,71
	\$ 3.423 \$ 4.874 \$ 3.806 \$ 4.874	Total LNG	Market	755,372		14,909.0	15,209.0	0.0	0.0	0.0		(0)	\$2,756,273.80 \$3,699,695.98 \$0.00	\$10,221.81	\$41,625.93 \$41,625.93	\$12,835.05 \$12,835.05	\$74,125.85	\$0.00 \$0.00	\$3,690,252.91
		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending		Opening			Trucking	Withdrawal	Withdrawal	Ending
Nov-19	\$ 3.278 \$ 4.825	Field ALL PORTABLE CUMBERLAND	Category Market	balance 0	NET 0	Trucking 4.338	Boiloff 0	Vapor 2,971	Transfer 0.0	Usage 0.0	balance 1,367	(0) -	Balance \$0.00	Adjustments (\$0.00)	Injections \$12,957.61 \$	Charges	Boiloff \$0.00	Vapor \$14,334.35	Balance (\$114,17)
	\$ 3.357 \$ 4.825 \$ 3.945 \$ 4.825	EXETER PROVIDENCE	Market Market	190,416 566,743	(252) (806)	8,777 21,187	3,808 10,350	2,291 22,276	0.0 0.0	0.0	192,842 554,498	: :	\$2,757,545.71	(\$5,883.04) \$726.55	\$26,216.90 \$ \$63,285.57 \$	8,288.12 16,393.49	\$18,372.67 \$49,936.21	\$11,053.51 \$107,476.24	\$931,903.00 \$2,680,538.87
	\$ 3.707 \$ 4.825	Total LNG		757,159	(1,058.0)	34,302.0	14,158.0	27,538.0	0.0	0.0	748,707.0	(0)	\$3,690,252.91 \$0.00	(\$5,156.50)	\$102,460.07	\$25,944.18	\$68,308.88	\$132,864.10	\$3,612,327.70
		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending		Opening			Trucking	Withdrawal	Withdrawal	Ending
Dec-19	#DIV/0! #DIV/0! PC \$ 2.644 \$ 4.783	Field ORTABLE CUMBERLAND EXETER	Category Market Market	1,367 192,842	NET (4,366) (553)	Trucking 4,366 1,724	Boiloff 0 5,643	Vapor 0 137	0.0 0.0	0.0 0.0	1,367 188,233	(0) -	Balance (\$114.17) \$931.903.00	Adjustments (\$14,355.27) (\$4,155.72)	\$0.00 \$ \$5,624.37 \$	Charges - 1,627.97	\$0.00 \$26,987,80	\$0.00 \$655.21	(\$14,469.44) \$907,356.61
	\$ 2.644 \$ 4.783 \$ 4.217 \$ 4.783 \$ 3.622 \$ 4.783	PROVIDENCE Total LNG	Market	554,498 748,707	(1,597) (6,516.0)	27,671 33.761.0	10,780 16,423.0	21,074 21,211.0	0.0	0.0	548,718	(0)	\$2,680,538.87 \$3,612,327.70	(\$4,155.72) (\$12,927.11) (\$31.438.10)	\$5,624.37 \$ \$90,273.75 \$ \$95.898.12	32,595.88 \$34,223.85	\$26,987.80 \$51,555.64 \$78,543.44	\$100,786.98 \$101,442.18	\$2,638,138.76 \$3.531.025.94
•	3 3.022 3 4.783	Total ENG		0.0	(0,310.0)	33,701.0	10,423.0	21,211.0	0.0	0.0	730,310.0	(0)	\$0.00	(\$31,430.10)	\$33,030.12	\$34,223.03	\$70,545.44	\$101,442.10	\$3,331,023.34
Jan-20		Storage Field	Storage Category	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening Balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	\$ 10.584 #DIV/0! \$ 34.356 \$ 4.732	portable/ seasonal CUMBERLAND & Portsmouth EXETER	Market Market	1,367 188,233	3,621 (241)	0	0 5,338	0	0.0 0.0	0.0 0.0	4,988 182,654		(\$14,469.44) \$907,356.61	\$38,324.69 (\$8,279,75)	\$0.00 \$ \$0.00 \$:	\$0.00 \$25,257.58	\$0.00 \$0.00	\$23,855.25 \$873,819.28
-	\$ 3.167 \$ 4.732 \$ 3.699 \$ 4.732	PROVIDENCE Total LNG	Market	548,718 738,318	(1,669)	34,648 34,648.0	11,116 16,454.0	27,651 27,651.0	0.0	0.0	542,930	- (0)	\$2,638,138.76 \$3,531,025.94	(\$21,862.03) \$8,182.90	\$85,985.94 \$ \$85,985.94	40,310.75 \$40,310.75	\$52,597.09 \$77,854.68	\$130,835.04 \$130,835.04	\$2,559,141.30 \$3,456,815.82
•				0.0									\$0.00						
Feb-20		Storage Field	Storage Category	Opening balance	Adjustments NET	Injection Trucking	Withdrawal Boiloff	Withdrawal Vapor	Field Transfer	Fuel Usage	Ending balance		Opening Balance	Adjustments	Injections	Trucking Charges	Withdrawal Boiloff	Withdrawal Vapor	Ending Balance
	\$ 5.675 #DIV/0! \$ 2.590 \$ 4.608	portable/ seasonal CUMBERLAND EXETER PROVIDENCE	Market Market	4,988 182,654 542,930	(269) 259 (287)	0 17,562 36,796	6,445 12.040	0 703 18	0.0 0.0 0.0	0.0 0.0 0.0	4,719 193,327 567,381	- (0) -	\$23,855.25 \$873,819.28 \$2,559,141,30	(\$1,526.56) (\$8,337.77) \$8,459.03	\$0.00 \$ \$37,909.33 \$ \$79.427.85 \$	16,583.80 26,010.62	\$0.00 \$29,696.53 \$55.476.53	\$0.00 \$3,239.20 \$82.94	\$22,328.69 \$887,038.90 \$2.617,479.32
	\$ 3.120 \$ 4.608 \$ 2.932 \$ 4.608	PROVIDENCE Total LNG	Market	542,930 730,572 0.0	(287) (297.0)	36,796 54,358.0	12,040 18,485.0	721.0	0.0	0.0		(0)	\$2,559,141.30 \$3,456,815.82 \$0.00		\$79,427.85 \$ \$117,337.18	26,010.62 \$42,594.42	\$55,476.53 \$85,173.07	\$82.94 \$3,322.14	\$2,617,479.32 \$3,526,846.91
		Storage	Storage	Opening 0.0	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending		S0.00 Opening			Trucking	Withdrawal	Withdrawal	Ending
Mar-20	\$ 4.848 \$ 4.580	Field portable/ seasonal CUMBERLAND	Category Market	balance 4,719	NET	Trucking 0	Boiloff	Vapor 1,664	Transfer 0.0	Usage 0.0	balance	(0)	Balance \$22,328.69	Adjustments (\$11,795.52)	Injections \$0.00 \$	Charges	Boiloff \$0.00	Vapor \$7,620.96	Balance \$2,912.21
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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-12 Page 2 of 2

Date Inject price Withdraw	price			VOLUME	INJECTIO	ONS	WITHDR	AWALS			VOLUME			\$ AMOUNT		INJECTIONS		WITHDRA	AWALS	\$ AMOUNT
\$ 4.040 \$	4.580	EXETER	Market	193,327	(473)	3,476	6,273	126	0.0	0.0	189,931			\$887,038.90	\$1,571.69	\$7,279.44 \$	3,282.39	\$28,729.73	\$577.07	\$869,865.61
\$ 3.019 \$	4.580	PROVIDENCE	Market	567,381	(172)	12,343	10,385	0	0.0	0.0	569,167			\$2,617,479.32	(\$3,958.63)	\$25,848.71 \$	14,859.38	\$47,562.30	\$0.00	\$2,606,666.49
\$ 2.911 \$	4.580	Total LNG		765,427	(3,078.0)	15,819.0	16,658.0	1,790.0	0.0	0.0	759,720.0	(0)		\$3,526,846.91	(\$14,182.46)	\$33,128.15	\$18,141.77	\$76,292.03	\$8,198.03	\$3,479,444.31
				0.0										\$0.00						
													_							
		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending			Opening			Trucking	Withdrawal	Withdrawal	Ending
Apr-20		Field	Category	balance	NET	Trucking	Boiloff	Vapor	Transfer	Usage	balance			Balance	Adjustments	Injections	Charges	Boiloff	Vapor	Balance
\$ 4.682 #DIV/0		portable/ seasonal CUMBERLAND	Market	622	(622)	0	0	0	0.0	0.0	0			\$2,912.21	(\$2,912.21)	\$0.00 \$		\$0.00	\$0.00	\$0.00
	4.580	EXETER	Market	189,931	(422)	0	3,217	0	0.0	0.0	186,292			\$869,865.61	(\$1,932.67)	\$0.00 \$	-	\$14,733.55	\$0.00	\$853,199.39
	4.580	PROVIDENCE	Market	569,167	60	0	9,402	0	0.0	0.0	559,825			\$2,606,666.49	\$338.25	\$0.00 \$	-	\$43,060.25	\$0.00	\$2,563,944.49
\$ 4.580 \$	4.580	Total LNG		759,720	(984.0)	0.0	12,619.0	0.0	0.0	0.0	746,117.0	(0)		\$3,479,444.31	(\$4,506.63)	\$0.00	\$0.00	\$57,793.80	\$0.00	\$3,417,143.88
				0.0										\$0.00						
		2.											_							
		Storage Field	Storage	Opening balance	Adjustments NFT	Injection	Withdrawal Boiloff	Withdrawal	Field	Fuel	Ending			Opening Balance	A 40	to to estable	Trucking Charges	Withdrawal Boiloff	Withdrawal	Ending Balance
May-20			Category	balance	NEI	Trucking		Vapor	Transfer	Usage	balance				Adjustments	Injections	Charges		Vapor	
#DIV/0! #DIV/0		CUMBERLAND	Market	0		0	0	0	0.0	0.0	0			\$0.00	(\$0.00)	\$0.00 \$		\$0.00	\$0.00	\$0.00
	4.580	EXETER PROVIDENCE	Market	186,292	(97)	0	3,056 8,533	0	0.0	0.0	183,139			\$853,199.39	(\$444.25)	\$0.00 \$		\$13,996.19	\$0.00	\$838,758.95
	4.580		Market	559,825	(70)	0		0	0.0	0.0	551,222		_	\$2,563,944.49	(\$320.59)	\$0.00 \$		\$39,080.32	\$0.00	\$2,524,543.58
\$ 4.580 \$	4.580	Total LNG		746,117	(167.0)	0.0	11,589.0	0.0	0.0	0.0	734,361.0	(0)		\$3,417,143.88	(\$764.84)	\$0.00	\$0.00	\$53,076.50	\$0.00	\$3,363,302.54
				0.0										\$0.00						
		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending			Opening			Trucking	Withdrawal	Withdrawal	Ending
Jun-20		Field	Category	balance	NET	Trucking	Boiloff	Vapor	Transfer	Usage	balance			Balance	Adjustments	Injections	Charges	Boiloff	Vapor	Balance
#DIV/0! #DIV/0	NI.	CUMBERLAND	Market	Dalanee	III.	n nucking	0	Tupo:	0.0	0.0	Dulunoo			\$0.00	\$0.00	\$0.00 \$	onargeo .	\$0.00	\$0.00	\$0.00
	4.580	EXETER	Market	183,139	(637)	0	3.001	0	0.0	0.0	179,501			\$838,758,95	(\$2,917,40)	\$0.00 \$		\$13,744,29	\$0.00	\$822,097,26
	4.580	PROVIDENCE	Market	551,222	(487)	0	8,962	0	0.0	0.0	541,773			\$2,524,543,58	(\$2,230,41)	\$0.00 \$		\$41.045.10	\$0.00	\$2,481,268.08
	4.580	Total LNG		734,361	(1,124,0)	0.0	11.963.0	0.0		0.0	721,274.0	(0)		\$3,363,302,54	(\$5,147,81)	\$0.00	\$0.00	\$54,789,39	\$0.00	\$3.303.365.34
				0.0	, , , ,		,				, ,	1-7		\$0.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			. ,		, ,
		Storage	Storage	Opening	Adjustments	Injection	Withdrawal	Withdrawal	Field	Fuel	Ending			Opening			Trucking	Withdrawal	Withdrawal	Ending
Jul-20		Field	Category	balance	NET	Trucking	Boiloff	Vapor	Transfer	Usage	balance			Balance	Adjustments	Injections	Charges	Boiloff	Vapor	Balance
#DIV/0! #DIV/0	ı!	CUMBERLAND	Market	0		0	0	0	0.0	0.0	0			\$0.00	\$0.00	\$0.00 \$		\$0.00	\$0.00	\$0.00
\$ 4.580 \$	4.483	EXETER	Market	179,501	(90)	0	3,306	0	0.0	0.0	176,105			\$822,097.26	(\$412.19)	\$0.00 \$		\$14,819.74	\$0.00	\$806,865.33
\$ 2.787 \$	4.483	PROVIDENCE	Market	541,773	899	40,449	13,243	0	0.0	0.0	569,878			\$2,481,268.08	\$4,117.33	\$69,543.97 \$	41,573.31	\$59,364.15	\$0.00	\$2,537,138.54
\$ 2.783 \$	4.483	Total LNG		721,274	809.0	40,449.0	16,549.0	0.0	0.0	0.0	745,983.0	(0)		\$3,303,365.34	\$3,705.14	\$69,543.97	\$41,573.31	\$74,183.89	\$0.00	\$3,344,003.86
				0.0										\$0.00						

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-13

Request:

Please identify all occasion since 2019 which the Company has invoked the curtailment provisions of its tariff. Identify the reason for the curtailment, volumes, and number of customers.

Response:

The Company invoked the curtailment provisions of its tariff twelve times since January 2019. A total of eleven accounts were curtailed. Since these customers are curtailed on peak days, the Company does not have a history of historical peak day usage. The total estimated peak day load associated with these eleven accounts is approximately totals with a connected CHF of 1,369,680 Curtailments were issued due to forecasted LNG use.

The gas days when curtailments were invoked are provided in the table below:

RIN	ON-FIRM CUSTOM	ERS
Effective Date	End Date	# of Gas Days
1/11/2019	1/14/2019	3
1/20/2019	1/23/2019	3
1/30/2019	2/3/2019	4
2/26/2019	3/1/2019	3
3/5/2019	3/8/2019	3
11/13/2019	11/14/2019	1
12/7/2019	12/8/2019	1
12/18/2019	12/20/2019	2
1/17/2020	1/18/2020	1
1/20/2020	1/22/2020	2
2/14/2020	2/15/2020	1
2/20/2020	2/21/2020	1

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-14

Request:

Please provide a complete monthly history of the Company's capacity release activity for the period April 2019 through July 2020. Provide a copy of the requested information in Excel format. The history should identify capacity released for on-system FT-1 and FT-2 transportation customers and releases to others separately, as well as any capacity acquired. Include the following:

- a. Amount of capacity available for release by pipeline and rate schedule;
- b. The applicable pipeline, acquiring party, quantity by zone, rate, duration, and revenues;
- c. The otherwise applicable maximum interstate pipeline rate; and
- d. Whether any conditions were placed on the release, and whether the capacity was recalled prior to the expiration of the initial term and the release.

Response:

Please see the Excel spreadsheets attached as Attachments DIV 1-14(a) through 1-14(p) for the requested information.

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-15

Request:

Please provide a complete monthly history of the Company's off-system sales activities period April 2019 through July 2020. Provide a copy of the requested information in Excel format. Include the following:

- a. Buyer;
- b. Date arrangement was agreed upon;
- c. Date(s) sold;
- d. Quantity sold each day;
- e. Pipeline receipt point and zone;
- f. Pipeline delivery point and zone;
- g. Date(s) gas supplies were purchased to accommodate each off-system sale;
- h. Quantity purchased each day;
- i. Cost associated with gas purchased, including acquisition source, price, and transportation arrangement;
- j. Avoided costs;
- k. Sales price; and
- 1. Net revenues.

Response:

Please see the Excel spreadsheet attached as Attachment Division 1-15, for the requested information concerning the Company's off-system sales activities for the period of April 2019 through July 2020.

Attachment Division 1-15 contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of Attachment DIV 1-15, subject to a Motion for Protective Treatment.

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Attachment DIV 1-15

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests

Issued on August 19, 2020

Division 1-16

Request:

Please provide the same information requested in the prior question for all exchange or park and loan activities wherein, for a fee, the Company accepts the delivery of gas from a counter-party at one pipeline location and delivers it to another location, accepts the delivery of gas from a counter-party and agrees to return it at a later date, or delivers gas to a counter-party at a point in time and accepts the return of that gas at a later point in time.

Response:

National Grid did not engage in any exchanges or park and loan activities for the specified period of April 2019 through July 2020.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests

Issued on August 19, 2020

Division 1-17

Request:

Please provide, on an aggregate basis (as opposed to an individual supplier basis), a monthly tabulation of FT-1 and FT-2 transportation customer imbalances for the period April 2019 through July 2020. That is, provide receipts of customer-owned gas adjusted for distribution system fuel retention and on-system storage activity versus consumption. Show how the imbalances were resolved, including those cashed-out, cashed-in, those carried forward, or resolved through other means. Include quantities and rates applicable to resolving imbalances (e.g., cash-out) as appropriate.

Response:

Please see the table below for FT-1 and FT-2 imbalances for the period April 2019 through July 2020, as well as the cash out index rate by month.

Month	Imbalances in D	ekatherms.	Total Imbalance Dekatherms.	Index Rate
	FT-1*	FT-2**		
Apr-2019	7,101.90	(21914.1)	(14,812.22)	\$2.59
May-2019	11,919.10	(29416.6)	(17,497.46)	\$2.35
Jun-2019	(6,588.10)	(8393.7)	(14,981.79)	\$2.13
Jul-2019	15,700.80	702.0	16,402.75	\$2.27
Aug-2019	46,541.60	(3284.2)	43,257.39	\$2.01
Sep-2019	55,184.10	11520.0	66,704.12	\$2.05
Oct-2019	57,017.70	(22622.3)	34,395.41	\$1.76
Nov-2019	85,435.80	(36585.0)	48,850.80	\$3.35
Dec-2019	104,493.10	(7720.9)	96,772.20	\$4.75
Jan-2020	78,515.30	9641.5	88,156.80	\$2.91
Feb-2020	38,579.40	11396.1	49,975.50	\$2.31
Mar-2020	16,268.20	(2490.8)	13,777.40	\$1.68
Apr-2020	(37,562.30)	(43670.4)	(81,232.70)	\$1.70
May-2020	(46,344.10)	(86882.2)	(133,226.30)	\$1.46
Jun-2020	(48,790.70)	(22252.3)	(71,043.00)	\$1.51
Jul-2020	20,381.20	(15152.8)	5,228.40	\$1.69
	397,853.00	(267125.7)	130,727.30	·

^{*}The FT-1 imbalances are cashed out using the tier rates as listed in question Division 1-17. Imbalances in Dekatherms.

^{**}The FT-2 imbalance isre separated into appropriate months using degree days, then multiplied by the average of the daily indices for the relevant month.

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-17, page 2

FT-1 and FT-2 transportation customer imbalances are resolved as described in the Company's gas tariff, RIPUC, NG-GAS no. 101, Section 6, Transportation Terms and Conditions, Schedule C (Gas Tariff).

The relevant excerpts from the Gas Tariff are reproduced below:

2.01 FT-1 Transportation Service:

2.03.2 Monthly Imbalances:

For each Aggregation Pool, the Marketer must maintain total Actual Transportation Quantities within a reasonable tolerance of total monthly Gas Usage. Any differences between total Monthly Transportation Quantities for an Aggregation Pool and the aggregated Gas Usage of Customers in the Aggregation Pool, expressed as a percentage of total Monthly Transportation Quantities will be cashed out according to the following schedule:

Imbalance Tier	Over-deliveries	Under-deliveries
0% - 5%	The average of the Daily Indices for the relevant Month relevant Month	The highest average of seven consecutive Daily Indices for the
> 5% - 10%	0.85 times the above stated rate	1.15 times the above stated rate
> 10% - 15%	0.60 times the above stated rate	1.4 times the above stated rate
> 15%	0.25 times the above stated rate	1.75 times the above stated rate

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-17, page 3

1.04.3 Marketer Responsibility:

For Critical Days or Operational Flow Orders (OFO) aggravated by under-delivery, the Marketer will be charged a penalty of 5 times the Daily Index for the aggregated Gas Usage of

Customers in the Aggregation Pool that exceed 102% of the Marketer's aggregate actual receipts on the Transporting Pipeline at the Point of Receipt. The Marketer will be charged a penalty of 0.1 times the Daily Index for the differences between said receipts and said usage that exceed 20% of said receipts [(Receipts – Usage) > (20% x Receipts)].

For Critical Days or OFO's aggravated by over-delivery, the Marketer will be charged a penalty of 0.1 times the Daily Index for the aggregated Gas Usage of Customers in the Aggregation Pool that exceed 120% of the Marketer's aggregate actual receipts on the Transporting Pipeline at the Point of Receipt. The Marketer will be charged a penalty of 5 times the Daily Index for the differences between said receipts and said usage that exceed 2% of said receipts [(Receipts – Usage) > (2% x Receipts)].

3.0 FT-2 Transportation Service:

3.04.0 Billing Imbalances:

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-17, page 4

The forecasted daily use (FDU) will be calculated each day. Imbalances between customer Gas Usage and the Forecasted Daily Usage (FDU), adjusted for actual weather, will be cashed out at the average of the Algonquin and Tennessee city gate delivered monthly indexes. The Company will prorate the imbalance amount between the months billed based on the customer's base load and heating use factors and apply the average monthly index to the corresponding month's imbalance quantity. Customer imbalances get split into individual months using degree days. That imbalance is then multiplied by that month's daily index.

The imbalance amount will be a credit if deliveries exceed the customer's use and a debit if deliveries are less than the customer's use. The billed imbalance amount for any billing will be the sum of the imbalance charges or credits attributable to each individual month.

3.03.1 Critical Days:

To satisfy the FDU (Forecasted Daily Use) nomination requirement on Critical Days, the Marketer is required to fully utilize upstream capacity that it received from Company through Capacity Release so as to help avoid restricting the Company's ability to provide efficient and reliable firm transportation and sales service. Notice of Critical Days will be posted on the EBB no later than concurrent with the posting of the FDU nomination requirement.

3.03.2 Over and Under-deliveries:

Under-deliveries at times when an OFO or critical day have not been declared will be cashed out at 120% of daily index. If the Company declares an OFO or critical day condition reducing the tolerance for over-deliveries, any over-deliveries of the aggregation pool's gas requirements, above the FDU, will be cashed out at 40% of the daily index. In addition, the Company reserves the right to reject such a nomination. Over-deliveries at other times will be cashed out at 80% of Daily Index.

1.06.0 Shipper and Transporting Pipeline Requirements:

Marketers must deliver a minimum of forty percent (40%) of total daily pipeline receipts (including all of the Marketer's Aggregation Pools serving both FT-1 and FT-2 customers) on each of the upstream pipelines: Algonquin Gas Transmission ("Algonquin") and Tennessee Gas Pipeline ("Tennessee"). The remaining twenty percent (20%) of total daily pipeline receipts (including all of the Marketer's

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-17, page 5

Aggregation Pools serving both FT-1 and FT-2 customers) may be delivered on either or both Algonquin or Tennessee.

If the Marketer does not deliver gas on the transporting pipelines as required above, the Company may charge the Marketer a penalty of 0.5 times the Daily Index for all differences less than the forty (40) percent minimum requirement on each transporting pipeline.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-18

Request:

Please identify the daily and monthly balancing requirements imposed on FT-1 and FT-2 transportation customers and explain how the balancing requirements of transportation customers affects the amount and type of capacity reserved by the Company. Identify any currently applicable balancing charges assessed to transportation customers.

Response:

Please see the Company's response to Division 1-17 for the daily and monthly balancing requirements imposed on FT-1 and FT-2 transportation customers and the applicable balancing charges assessed to transportation customers.

As the delivery point operator, the Company must balance total load, including transportation customer load and sales customer load, with both Algonquin and Tennessee pipelines. While the Company provides access to its storage and LNG assets to Marketers serving FT-2 customers via its managed service tiers, the Company retains physical control of these assets in its gas supply portfolio to balance total load to the level imposed by the respective pipeline (i.e. daily, hourly, etc.).

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-19

Request:

Please identify the extent to which the Company was unable to use its long-haul Tennessee capacity with Gulf Coast production area primary receipt points to purchase Tennessee Zone 4 gas supplies during the period April 2019 through July 2020. That is, the Company purchased Gulf Coast supplies.

Response:

The Company was not restricted from buying Tennessee Zone 4 gas any day during the period April 2019 through July 2020.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-20

Request:

Please identify the extent to which the Company was unable to use its long-haul Texas Eastern capacity with Gulf Coast production area primary receipt points to purchase Texas Eastern M-2 gas supplies during the period April 2019 through July 2020. That is, the Company purchased Gulf Coast Supplies.

Response:

The Company recently became unable to use its long-haul Texas Eastern capacity to purchase Texas Eastern M-2 gas. Starting on July 15, 2020 the Company stopped purchasing Texas Eastern M-2 gas due to restrictions enacted at the Uniontown Compressor Station.

Due to the continued increases in natural gas supplies within Market Zone M2-30 (Meter No. 79508), Texas Eastern moved the M2-30 TAB pool that is currently at the far east end of the Market Zone M2-30 at mile post 305.812. The M2-30 TAB was relocated to a point just west of the Uniontown Compressor station at mile post 339.943 to more accurately reflect where the current supply sources in the Market Zone M2-30 are being received into the Texas Eastern system.

Prior to the change in location, M2 gas supplies did not flow through Uniontown and were not subject to any curtailment.

Prior to July 15, 2020 the Company had not been restricted from buying Texas Eastern M-2 gas.

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted Division 1-21

Request:

Please provide a schedule identifying for the winter of 2019/20 and 2020/21:

- a. The MDQ of each gas supply contract and the applicable daily and monthly nomination/purchase requirements;
- b. The demand charges associated with each gas supply contract (applicable rate and amount); and
- c. Commodity pricing provisions.

Response:

Please see the chart below which provides the following information for those transactions that have been executed for the winter of 2019/20 and 2020/21: (i) the MDQ of each gas supply contract and the applicable daily and monthly nomination/purchase requirements; (ii) the demand charges associated with each gas supply contract (applicable rate and amount); and (iii) commodity pricing provisions. The Company is currently negotiating transactions for winter 2020/21 and will supplement this response once these transactions have been fully executed.

Gas Supplier	Path/Receipt Point	Gas Supply Purchase/AMA	Term	Maximum Daily Quantity (dt)	Maximum Monthly Quantity (dt)	Total AMA Fee	Total Demand Charge	Gas Supply Requirements	Commodity Price
Constellation LNG, LLC	Winter Vapor Purchase at Everett, MA	Gas Supply Purchase	12/01/2019- 04/01/2020	20,000	632,000	N/A		Daily Call	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted Division 1-21, page 2

Constellation LNG, LLC	Winter Vapor Purchase at Everett, MA	Gas Supply Purchase	12/01/2020- 04/01/2021	20,000	651,000	N/A		Daily Call	
Emera Energy Services, Inc.	Dawn to East Hereford (Union, TCPL)	AMA	11/01/2019- 04/30/2020	10,757	Daily Call		N/A	Baseload Election + Daily Call	E
DTE Energy Trading, Inc.	Dawn to East Hereford (Union, TCPL)	AMA	11/01/2019- 04/30/2020	14,999	Daily Call		N/A	Baseload Election + Daily Call	Ł
EDF Trading North America, LLC	Dawn to TGP Z6 (Union, TCPL, IGTS, TGP)	AMA	11/01/2019- 03/31/2020	1,000	Daily Call		N/A	Baseload Election + Daily Call	-
Freepoint Commodities LLC	Dracut to TGP Z6	AMA	12/1/2019- 04/30/2020	22,300	Daily Call		N/A	Daily Call	F
Spotlight Energy, LLC	Tco Broadrun to AGT Hanover	AMA	11/01/2019- 04/15/2020	10,000	Daily Call		N/A	Daily Call	

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted Division 1-21, page 3

Constellation LNG, LLC	Winter Vapor Purchase at AGT	Gas Supply Purchase	11/01/2019- 03/31/2020	14,100	507,600	N/A	Daily Call	
Constellation LNG, LLC	Winter Vapor Purchase at AGT	Gas Supply Purchase	11/01/2020- 03/31/2021	14,100	507,600	N/A	Daily Call	
Constellation LNG, LLC	LNG Purchase	Gas Supply Purchase	12/01/2019- 03/31/2020	21,000	192,450	N/A	Daily Call	
Constellation LNG, LLC	Winter Vapor Purchase at Everett, MA	Gas Supply Purchase	12/01/2019- 03/31/2020	5,000	25,000	N/A	Daily Call	

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-22

Request:

For the five coldest non-weekend/holiday days during the winter of 2019/2020, please provide an analysis that demonstrates that the design day forecast models relied upon and developed by the Company for the winter of 2019/20 produced a reasonable estimate of planning load on these five days.

Response:

The table below lists the five coldest non-weekend/holiday days during the winter of 2019/20, the actual throughput, the predicted throughput given the actual weather of the winter of 2019/20, the volumetric difference, and the percent error difference. Weekend days are defined as Saturdays and Sundays; holidays excluded are Thanksgiving Day, Christmas Day, New Year's Day, Martin Luther King, Jr. Day, and Presidents Day.

<u>Date</u>	<u>HDD</u>	Actual Dth	Predicted Dth	Error Dth	Error Pct
12/19/2019	47	313,560	301,046	12,514	4.0 %
1/17/2020	47	302,007	297,583	4,424	1.5 %
2/14/2020	46	274,528	290,225	-15,697	-5.7 %
1/21/2020	44	288,986	294,947	-5,961	-2.1 %
12/18/2019	41	257,874	268,702	-10,828	-4.2 %

The mean absolute percentage error (MAPE) is 3.5 percent.

For the five coldest non-weekend/holiday days during the winter of 2018/19, the MAPE was 4.4 percent. For the five coldest non-weekend/holiday days during the winter of 2017/18, the MAPE was 3.8 percent. For the five coldest non-weekend/holiday days during the winter of 2016/17, the MAPE was 3.3 percent.

The Company generally aims for a MAPE in the three percent range in its comparison of actual versus predicted daily wholesale total throughput as it monitors throughput throughout the heating season.

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-23

Request:

With respect to the capacity assigned to FT-1 transportation customers for the period April 2019 through July 2020:

- a. Please identify the monthly quantity of capacity assigned by pipeline contract and rate schedule;
- b. Explain how the quantity assigned is determined;
- c. Identify the applicable monthly pipeline rates and costs of each capacity assignment; and
- d. Please identify any monthly charges assessed to FT-1 customers (or their supplies) for the assigned capacity beyond the charges paid directly to the pipeline by the customer or their supplier. Explain how the additional charges are determined.

Response:

- a. Please see Attachment DIV 1-23 for the monthly quantity of capacity assigned by pipeline contract and rate schedule for FT1.
- b. The Company determines the quantity to be released based on the customer's calculated Peak Day Use and load factor rate class. The Company separately calculates assignment percentages for high load factor and low load factor rate classes eligible for transportation. It then multiplies the percentage applicable to the Customer's rate class by the Customer's Peak Day Use to determine the amount of capacity to be assigned to the Marketer (as per section 1.07.0 of the Company's tariff).
- c. Please see Attachment DIV 1-23 for the applicable monthly pipeline rates and costs of each capacity assignment.
- d. The Company assesses a surcharge/credit to Marketers based on the difference between the charges of the upstream pipeline transportation capacity and the weighted average of the Company's upstream pipeline transportation capacity charges as calculated by the Company. To the extent that the charges of such released pipeline capacity are greater than the weighted average charges, the Marketer receives credit for such difference in charges based on the total quantity

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-23, page 2

of capacity released by the Company to the Marketer. The per Dth charge is calculated by subtracting the charge per Dth for the released pipeline capacity from the Company's weighted average Upstream Transportation charges as identified in the Company's annual Gas Cost Recovery Filing. To the extent that the cost of such released pipeline capacity is less than the weighted average cost, the Marketer is surcharged for such difference (as per section 1.07.0 of the Company's tariff).

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-23 Page 1 of 1

Capacity released for on-system FT-1 transportation customers April 2019-July 2020.

			- 1	Apr-2019	May-2019	Jun-201	Jul-2019	Aug-2019	Sep-2019	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020
Rate Schedule		Algonquin																	
AFT-E1	93011E	volume		1,229	1,194	1,188	1,196	1,172	1,180	1,150	1,099	1,027	1,041	1,120	1,042	1,041	1,055	1,069	1,107
		release rate (\$/Dt/m)	\$	6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734
AFT-14	90106	volume		1,238	1,228	1,224	1,227	1,222	1,221	1,215	1,181	1,133	1,149	1,147	1,146	1,141	1,142	1,147	1,154
		release rate (\$/Dt/m)	\$	6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734	\$ 6.5734
		_																	
		Tennessee		-			+												
FT-A	1597	volume		3.918	3,891	3,875	3,887	3,537	3,867	3,845	4.137	3,804	4,212	3,782	3,783	3,765	3,770	3,784	3,809
117	1007	release rate (\$/Dt/m)	\$	19.2261	\$ 19.2261	\$ 19.2261		\$ 19.2261	\$ 19.2261	\$ 19.2261	, .	\$ 19.2261	\$ 19.2261	\$ 19.2261	\$ 19.2261	\$ 19.2261	\$ 19.2261		\$ 19.2261
		release rate (\$\psi D\rim)	Ψ	10.2201	ψ 13.2201														
FT-A	62930	volume		828	730	71:	728	503	674	589	605	492	488	489	500	455	500	544	664
		release rate (\$/Dt/m)	\$	4.2512	\$ 4.2512	\$ 4.2512	\$ 4.2512	\$ 4.2512	\$ 4.2512			\$ 4.2512	\$ 4.2512	\$ 4.2512				\$ 4.2512	
		Columbia																	
FTS	31520	volume		209	209	207	207	205	207	206	200	190	197	195	196	195	196	196	197
		release rate (\$/Dt/m)	\$	7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510	\$ 7.0510
FTS	31524	volume		1,043	1,036	1,034	1,037	1,032	1,029	1,024	995	971	981	980	980	973	973	978	984
		release rate (\$/Dt/m)	\$	7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610	\$ 7.1610
		T-4																	
CDS	000202	Tetco		7.056	7 700	7.771	7 702	7 757	7.750	7 700	7.404	7.106	7 207	7.074	7 070	7.040	7.054	7 202	7 220
CDS	800303	volume	æ	7,856	7,799		7,793	7,757	7,752	7,708	7,494	7,196	7,297	7,274	7,279	7,242	7,254	7,282	7,328
		release rate (\$/Dt/d)	Ф	16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631	\$ 16.6631

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-24

Request:

With respect to the capacity assigned to FT-2 transportation customers for the period April 2019 through July 2020:

- a. Please identify the monthly quantity of capacity assigned by pipeline contract and rate schedule;
- b. Explain how the quantity assigned is determined;
- c. Identify the applicable monthly pipeline rates and costs of each capacity assignment; and
- d. Please identify any monthly charges assessed to FT-2 customers (or their supplies) for the assigned capacity beyond the charges paid directly to the pipeline by the customer or their supplies. Explain how the additional charges are determined.

Response:

- a. Please see Attachment DIV 1-24 for monthly quantity of capacity assigned by pipeline contract and rate schedule for FT-2 transportation customers.
- b. The Company determines the quantity to be released based on the customer's calculated Peak Day Use and load factor rate class. The Company separately calculates assignment percentages for high load factor and low load factor rate classes eligible for transportation. It then multiplies the percentage applicable to the Customer's rate class times the Customer's Peak Day Use to determine the amount of capacity to be assigned to the Marketer (as per section 1.07.0 of the Company's tariff).
- c. Please see Attachment DIV 1-24 for the applicable monthly pipeline rates and costs of each capacity assignment.
- d. The Company assesses a surcharge/credit to Marketers based on the difference between the charges of the upstream pipeline transportation capacity and the weighted average of the Company's upstream pipeline transportation capacity charges as calculated by the Company. To the extent that the charges of such

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-24, page 2

released pipeline capacity are greater than the weighted average charges, the Marketer receives credit for such difference in charges based on the total quantity of capacity released by the Company to the Marketer. The per Dth charge is calculated by subtracting the charge per Dth for the released pipeline capacity from the Company's weighted average Upstream Transportation charges as identified in the Company's annual Gas Cost Recovery Filing. To the extent that the cost of such released pipeline capacity is less than the weighted average cost, the Marketer is surcharged for such difference (as per section 1.07.0 of the Company's tariff).

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-24

Capacity released for on-system FT-2 transportation customers April 2019-July 2020.

Page 1 of 1

Rate Schedule		Algonquin	Apr-2019	May-2019	J	Jun-2019	Jul-20	019	Aug-20	19	Sep-2019	О	Oct-2019	Nov-	2019	Dec-2	019	Jan-2020	Feb-2020	N	Mar-2020	Apr-2020)	May-2020	Jun-	2020	Jul-2020
AFT-E1	93011E	volume release rate (\$/Dt/m)	\$ 1,485 6.5734	\$ 1,521 6.5734	\$	1,526 6.5734 \$	1,5 6.57	18 34 \$	1,54 6.573	42 34 \$	1,534 6.5734	\$	1,564 6.5734 \$		614 734 \$,	586 734 \$	1,673 6.5734	\$ 1,594 6.5734 \$;	1,671 6.5734 \$	1,673 6.5734		1,660 6.5734		,646 5734 \$	1,607 6.5734
AFT-14	90106	volume release rate (\$/Dt/m)	\$ 1,763 6.5734	\$ 1,772 6.5734	\$	1,776 6.5734 \$		773 34 \$	1,7 6.573	79 34 \$	1,779 6.5734	\$	1,786 6.5734 \$,820 734 \$	6.5	867 734 \$	1,851 6.5734	\$ 1,854 6.5734 \$;	1,854 6.5734 \$	1859 6.5734		1858 6.5734		1853 5734 \$	1846 6.5734
		Tennessee																									
FT-A	1597	volume release rate (\$/Dt/m)	\$ 5,582 19.2261	\$ 5,609 19.2261	\$	5,624 19.2261 \$	5,6 19.22		5,9 19.226		5,633 19.2261	\$ 1	5,656 19.2261 \$		763 261 \$		097 261 \$	5,688 19.2261	\$ 6,117 19.2261 \$;	6,115 19.2261 \$	6,134 19.2261		6,130 19.2261	6 \$ 19.2	,116 261 \$	6,092 19.2261
FT-A	62930	volume release rate (\$/Dt/m)	\$ 172 4.2512	\$ 270 4.2512	\$	287 4.2512 \$		272 12 \$.97 12 \$	326 4.2512	\$	412 4.2512 \$	4.2	495 512 \$		608 512 \$	612 4.2512	\$ 611 4.2512 \$;	600 4.2512 \$	645 4.2512		600 4.2512		556 2512 \$	436 4.2512
		Columbia																									
FTS	31520	volume release rate (\$/Dt/m)	\$ 294 7.0510	\$ 295 7.0510	\$	295 7.0510 \$		95 10 \$	29 7.051	96 10 \$	296 7.0510	\$	297 7.0510 \$		303 510 \$		310 510 \$	308 7.0510	\$ 309 7.0510 \$	5	309 7.0510 \$	309 7.0510		309 7.0510		308)510 \$	307 7.0510
FTS	31524	volume release rate (\$/Dt/m)	\$ 1,470 7.1610	\$ 1,477 7.1610	\$	1,480 7.1610 \$		477 10 \$	1,4 7.161	82 10 \$	1,483 7.1610	\$	1,489 7.1610 \$,518 610 \$		557 310 \$	1,543 7.1610	\$ 1,545 7.1610 \$	5	1,545 7.1610 \$	1550 7.1610		1549 7.1610		1545 610 \$	1539 7.1610
		Tetco																									
CDS	800303	volume release rate (\$/Dt/d)	1188 16.6631	11245 16.6631		1272 16.6631 \$	11251 16.66	31 \$	11290 16.663	31 \$	11291 16.6631		1337 16.6631 \$	11552 16.6	! 631 \$	11849 16.66		11749 16.6631	11770 16.6631 \$		1762 16.6631 \$	11802 16.6631		11792 16.6631	1176 \$ 16.6		11718 16.6631

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-25

Request:

Please provide the projected design day, design winter, and design annual volumes of high and low load factor sales customers for the period November 2020 through October 2021.

Response:

Please see the chart below. While the Company does not have daily metered retail data to precisely forecast a retail design day for sales customers, it has estimated these values (in Dth).

	Design Day (Est.)	Design Winter	Design Year
Low Load Factor	312,015	20,887,109	29,129,442
Sales			
High Load Factor	5,323	387,225	677,115
Sales			
Total	317,338	21,264,334	29,806,556

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-26

Request:

For the periods November 2019 through October 2020 and November 2020 through October 2021, please provide the following projected design day demand quantities:

- a. Total for which the Company performs capacity planning;
- b. FT-2 customer demands met by pipeline FT capacity;
- c. FT-2 customer demands met by pipeline and LNG storage (separately);
- d. FT-1 capacity exempt customer demands met by pipeline FT capacity;
- e. FT-1 capacity exempt customer demands met by pipeline and LNG storage (separately);
- f. FT-1 capacity assigned customer demands met by pipeline FT capacity;
- g. FT-1 capacity assigned customer demands met by pipeline and LNG storage (separately);
- h. Sales customer demands met by pipeline FT capacity; and
- i. Sales customer demands meet by pipeline and LNG storage (separately).

Response:

Data for 2019-20 forecasted design day are based on capacity releases for January 2020. Data for 2020-21 forecasted design day are based on capacity releases for September 2020.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066
In Re: 2020 Annual Gas Cost Recovery Filing

Responses to the Division's First Set of Data Requests
Issued on August 19, 2020

Division 1-26, page 2

		Nov 2019 – Oct	Nov 2020 - Oct
		<u>2020</u>	<u>2021</u>
a.	Total for which the Company performs capacity planning;	387,467 Dth	383,384 Dth
b.	FT-2 customer demands met by pipeline FT capacity;	Pipeline: 21,932 Dth	Pipeline: 24,436 Dth
c.	FT-2 customer demands met by pipeline and LNG storage (separately);	Storage :4,742 Dth Peaking: 18,274 Dth	Storage: 4,583 Dth Peaking: 15,136 Dth
d.	FT-1 capacity exempt customer demands met by pipeline FT capacity;	28,496 Dth (Note: the Company does not perform capacity planning for the capacity- exempt customers)	26,574 Dth (Note: the Company does not perform capacity planning for the capacity- exempt customers)
e.	FT-1 capacity exempt customer demands met by pipeline and LNG storage (separately);	The Company is unaware of the supplies delivered to FT-1 capacity-exempt customers. Their total forecasted sendout is presented in (d) above.	The Company is unaware of the supplies delivered to FT-1 capacity-exempt customers. Their total forecasted sendout is presented in (d) above.
f.	FT-1 capacity assigned customer demands met by pipeline FT capacity;	Pipeline: 13,615 Dth	Pipeline: 15,432 Dth

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

g.	FT-1 capacity assigned customer demands met by pipeline and LNG storage (separately);	Storage and peaking: 10,114 Dth (based on the Company's forecast of their total peak less (f))	Storage and peaking: 7,555 Dth (based on the Company's forecast of their total peak less (f))
h.	Sales customer demands met by pipeline FT capacity; and	Pipeline: 202,275 Dth	Pipeline: 197,954 Dth
i.	Sales customer demands meet by pipeline and LNG storage (separately).	Storage: 12,979 Dth Peaking: 114,934 Dth	Storage: 13,138 Dth Peaking: 115,828 Dth

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted Division 1-27

Request:

For the period April 2019 through July 2020:

- a. Please separately identify monthly citygate storage and citygate peaking quantities sold to FT-2 marketers and the applicable price;
- b. Explain how the price for citygate storage and peaking service supplies is determined; and
- c. Explain whether the Company made citygate purchases during the period and whether the costs associated with these purchases were assigned to FT-2 marketers. If such purchases were made, identify the date of each purchase and the applicable quantities and prices.

Response:

- a. Please see Attachment DIV 1-27 for quantities sold to FT-2 marketers and the applicable prices for the period April 2019 through July 2020.
- b. The variable price for storage is equal to the Company's underground storage weighted average cost of gas ("WACOG"). The fixed price is determined based on the weighted-average fixed costs of the underground storage assets. The variable and fixed pricing for peaking supplies are weighted averages determined by the Company's LNG WACOG and the fixed costs for any liquid refill contracts, as well as any variable or fixed costs for supply deals that the Company considers to be peaking assets.
- c. The following citygate purchases were made under the Company's agreement with Constellation LNG, LLC for delivery of up to 14,100 Dth per day to the Company's citygates. The supply call option for these volumes was entered into in advance of the heating season, so a portion of the costs associated with these purchases were assigned to FT-2 marketers in both the FT-2 Peaking Demand Rate as well as the variable rates.

Date	Quantity (Dth)	Price (per Dth)
11/8/2019	7,000	
11/13/2019	1,000	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Redacted
Division 1-27, page 2

12/7/2019	14,100	
12/19/2019	9,000	
1/17/2020	14,100	
1/20/2020	14,100	
1/21/2020	14,100	
2/14/2020	14,100	

The following citygate purchases were made in the spot market and were not specifically planned for in advance of the heating season, so these costs were not assigned to FT-2 marketers. There were no fixed costs associated with these purchases.

	Quantity	Price (per
<u>Date</u>	<u>(Dth)</u>	<u>Dth)</u>
11/12/2019	3,000	\$ 7.000
3/7/2020	5,000	\$ 1.820
3/7/2020	4,000	\$ 1.860
4/22/2020	5,000	\$ 2.000

Subpart (c) of this responses contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of this response, subject to a Motion for Protective Treatment

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-28

Request:

Please provide a copy of all contracts governing the acquisition of LNG supplies, services, and tank lease payments in effect during the period April 2019 through July 2020. Indicate how the costs associated with each contract have been or will be recovered.

Response:

Please see Attachment DIV 1-28 for all executed transaction confirmations governing the acquisition of LNG supplies, services, and tank lease payments in effect during the period April 2019 through July 2020. The Company will supplement its response to this data request if additional transaction confirmation(s) within the scope of this request are executed.

Attachment DIV 1-28 contains commercially sensitive and confidential information; therefore, the Company is providing confidential and redacted versions of Attachment DIV 1-28, subject to a Motion for Protective Treatment. The costs associated with each contract have or are proposed to be recovered through the Gas Cost Recovery factor.

REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 5066
Attachment DIV 1-28
LINGTINY Page 1 of 78
Point Street
103331

1310 Point Street 8th Floor Baltimore, MD 21231 410.470.3500 Telephone www.constellation.com



CONFIRMATION AGREEMENT

This will confirm the agreement reached on **November 5**, 2019 between **CONSTELLATION LNG, LLC** ("Seller") and **THE NARRAGANSETT ELECTRIC COMPANY D/B/A NATIONAL GRID** ("Buyer") (each individually a "Party" and collectively the "Parties") regarding the sale and purchase of liquified natural gas ("LNG") on the following terms and conditions:

1. <u>Commercial Terms</u>. The "Commercial Terms" of this transaction are as set forth below:

insaction Confirmation:	NSB19-042-20	
	CONSTELLATION LNG, LLC // 1310 POINT STREET 8TH FLR BALTIMORE, MD 21231	
	The Narragansett Electric Company d/b/a National Grid c/o National Grid 100 East Old County Road Hicksville, New York 11801 Attn: Contract Administration Phone: (516) 545-6068 Fax: (516) 806-4442	
livery Period:	December 1, 2019 through and inclusive of March 31, 2020.	
e of Transaction:	Firm (Variable) LNG Service	
formance Obligation d Contract Quantity:	On any Day during the Delivery Period, Buyer shall have the right, but not the obligation, to purchase on a Firm basis a "Maximum Daily Quantity" or "MDQ" of LNG not to exceed an MDQ of 21,000 MMBtus (plus any additional quantities required to fill the final LNG Truck to capacity) per Day and a total Contract Quantity of LNG during the Delivery period not to exceed 192,450 MMBtus (plus any additional quantities required to fill the final LNG Truck to capacity).	
ivery Point(s):	For Firm delivery service of LNG at the truck loading flange of the Distrigas of Massachusetts LLC marine LNG terminal located in Everett, Massachusetts ("LNG Terminal") for redelivery by Buyer only at its National Grid LNG facilities.	
	Buyer shall pay to Seller a Contract Price of LNG equal to the following two components: Commodity Rate: For each MMBtu of LNG delivered to Buyer during the Delivery Period, Buyer will pay Seller a rate per MMBtu equal to	
	the Delivery Period, Buyer will pay Seller a rate per MME	

Attachment DIV 1-28 Page 2 of 78

Seller in the amount of

for Firm delivery of LNG during the Delivery Period as set forth herein ("Call Payment). The Call Payment shall be paid to Seller in four (4) equal, consecutive monthly installments of each, commencing in December 2019 and continuing through and including March 2020 during the Delivery Period.

(The Commodity Rate and the Call Payment components (each, as stated on a per MMBtu basis) are hereinafter collectively referred to as the "Contract Price" (per MMBtu)).

Special Conditions:

- Nominations: All nominations for delivery of LNG to LNG Trucks shall be made by Buyer by providing notice to Seller not less than 48 hours prior to the Gas Day on which delivery of the LNG is requested.
- Dodd-Frank Compliance: Each party represents and warrants that:
- (i) As of the date hereof, the party that is the offeree of this option represents that it is: (i) a producer, processor, commercial user of, or a merchant handling, the commodity that is the subject of this option, or the products or byproducts thereof; and (ii) entering into this option solely for purposes related to its business as such.
- (ii) As of the date hereof, the party that is the offeror of this option represents that it is an Eligible Contract Participant (as that term is defined in section 1a(18) of the Commodity Exchange Act, as amended, and Commodity Futures Trading Commission Regulation 1.3(m)), or (i) a producer, processor, commercial user of, or a merchant handling, the commodity that is the subject of this option, or the products or byproducts thereof; and (ii) offering or entering into this option solely for purposes related to its business as such.
- (iii) As of the date hereof, each party represents to the other that this option, if exercised, contains a binding obligation that results in the sale of a non-financial commodity for immediate or deferred shipment or delivery.
- Transportation of LNG: Transportation of LNG from the LNG Terminal shall be scheduled solely by Buyer. All costs associated with such transportation, including any surcharges, shall be the responsibility of Buyer.
- 4. Document Conflict: In the event of a conflict between the terms and conditions of the (i) Transaction Confirmation, (ii) LNG Annex, (iii) Special Provisions, and (iv) Base Contract, the terms and conditions of the documents shall govern in the priority listed in this provision.
- 5. Capitalized Terms: Capitalized terms used herein and not

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 3 of 78

otherwise defined shall have the meaning set forth in the Base Contract, as amended by any Special Provisions and the LNG Annex.

All provisions contained or incorporated by reference in the NAESB-BASE CONTRACT FOR SALE AND PURCHASE OF NATURAL GAS dated as of December 19, 2011 between CONSTELLATION LNG, LLC (as assignee from ENGIE Gas & LNG LLC) and THE NARRAGANSETT ELECTRIC COMPANY D/B/A NATIONAL GRID, as amended, will govern this confirmation except as expressly modified herein. Any capitalized terms used herein and not defined shall have the meaning set forth in the Base Contract.

Please confirm that the foregoing correctly sets forth the terms and conditions of our agreement by returning via facsimile to the number 410-468-3540 to the attention of Operations Contract Administration.

We are pleased to have concluded this Transaction with you and look forward to your confirmation of this Transaction.

Regards,

CONSTELLATION LNG, LLC

Fitte: SUP-Wale sale Trading

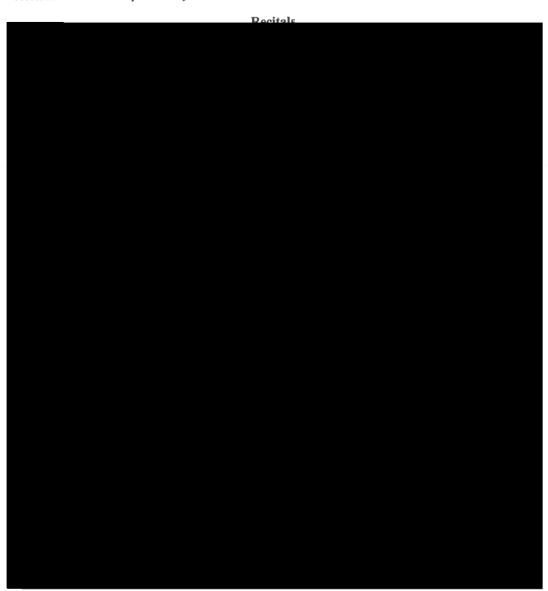
ACKNOWLEDGED AND AGREED:

THE NARRAGANSETT ELECTRIC COMPANY D/B/A NATIONAL GRID

Page 4 of 78

Equipment Rental and Support Services Agreement

This Equipment Rental and Support Services Agreement (this "Agreement") is entered into this 14 day of August 2019 (the "Effective Date") by and between Prometheus Energy Group Inc., a Delaware corporation ("Prometheus") and its affiliates, and The Narragansett Electric Company d/b/a National Grid ("Customer"). Prometheus and Customer are sometimes hereinafter referred to individually as "Party" and collectively as the "Parties".

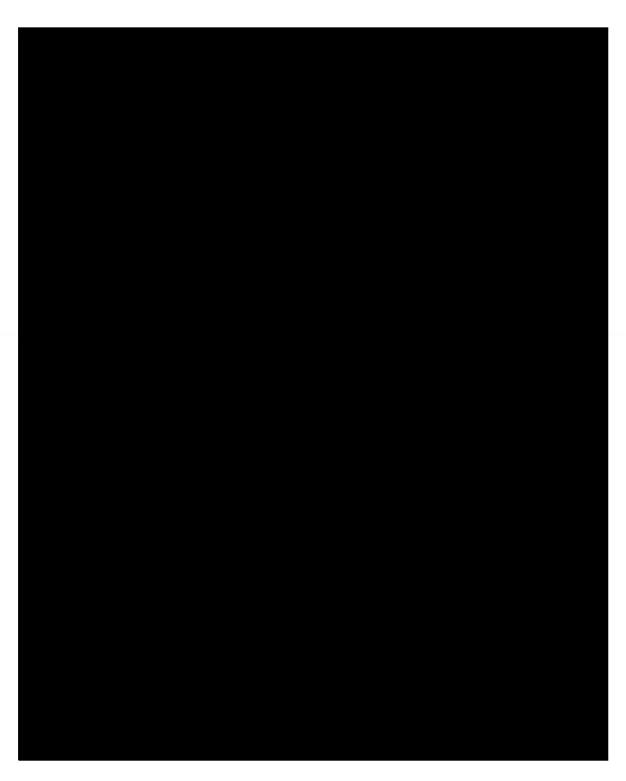


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28

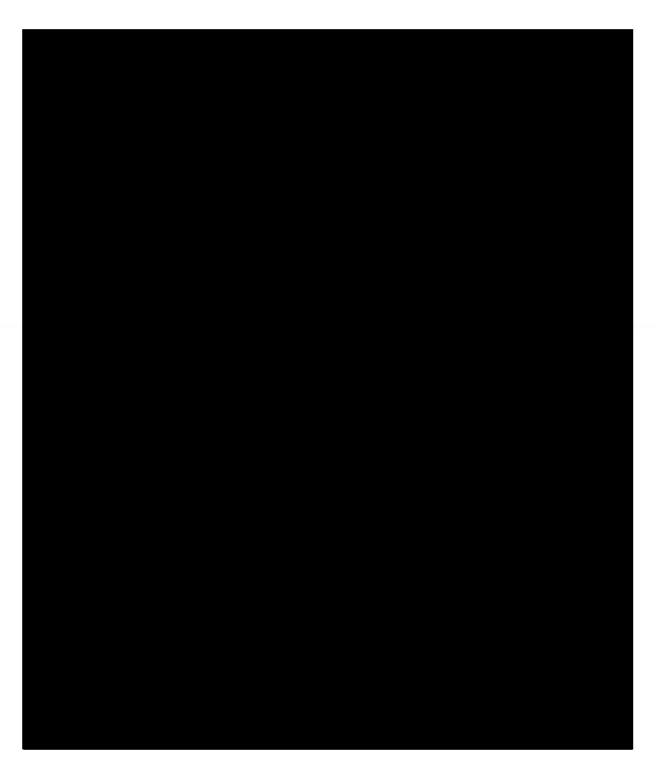
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Page 6 of 78



Page 7 of 78

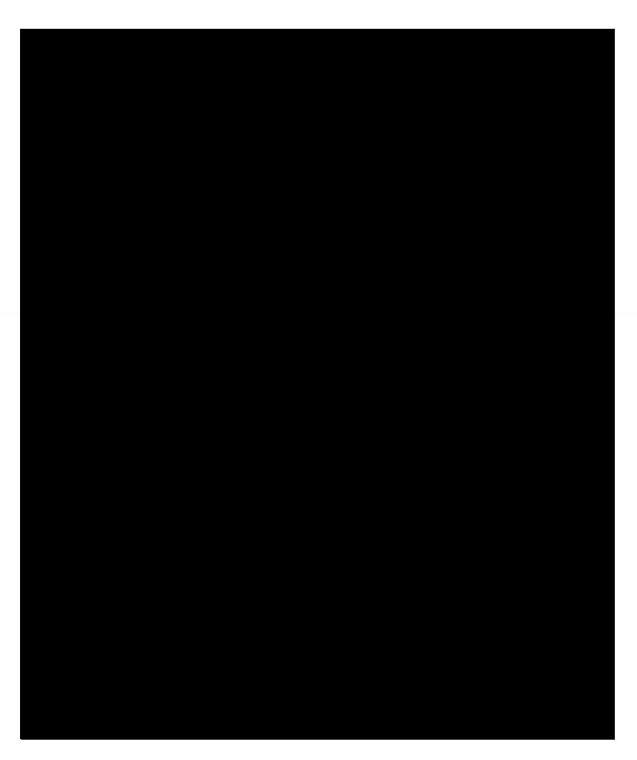


Page 8 of 78

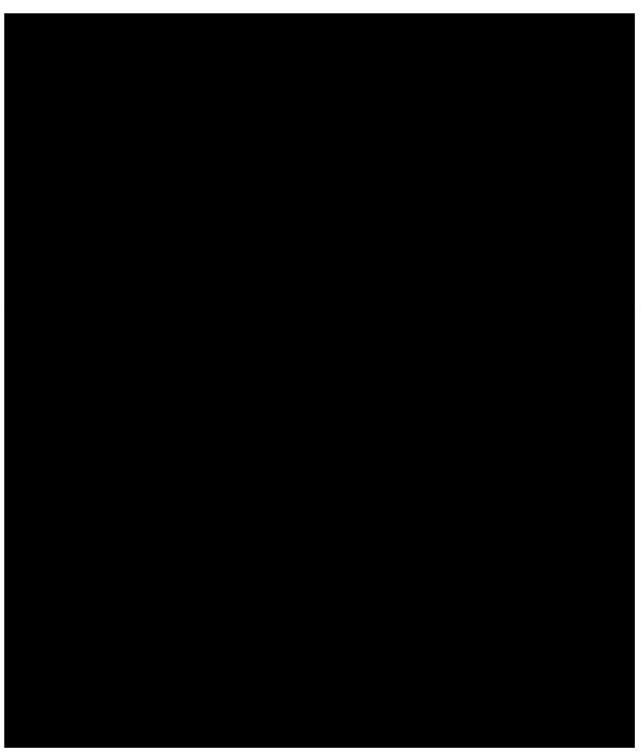
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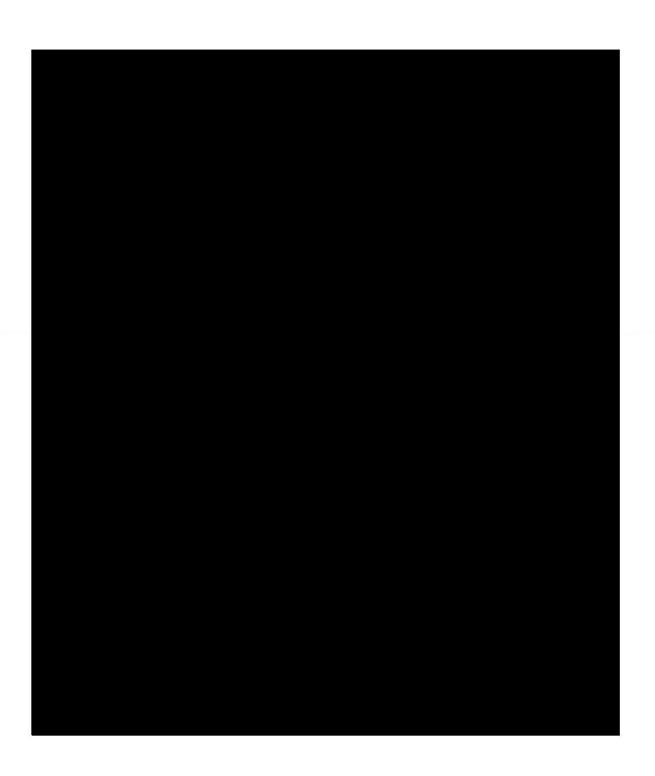


Page 9 of 78



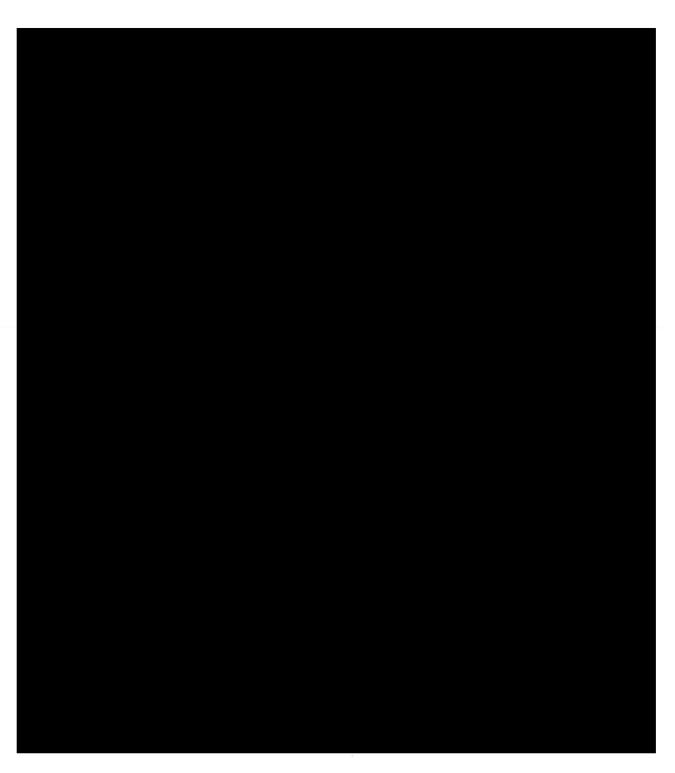
Page 10 of 78





Page 12 of 78

REDACTED



Attachment DIV 1-28



IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed on the date set forth above.

The Narragansett Electric Company

pd/b/a National Grid.

Name:

John V. Vaughn

Title: Authorized Signatory

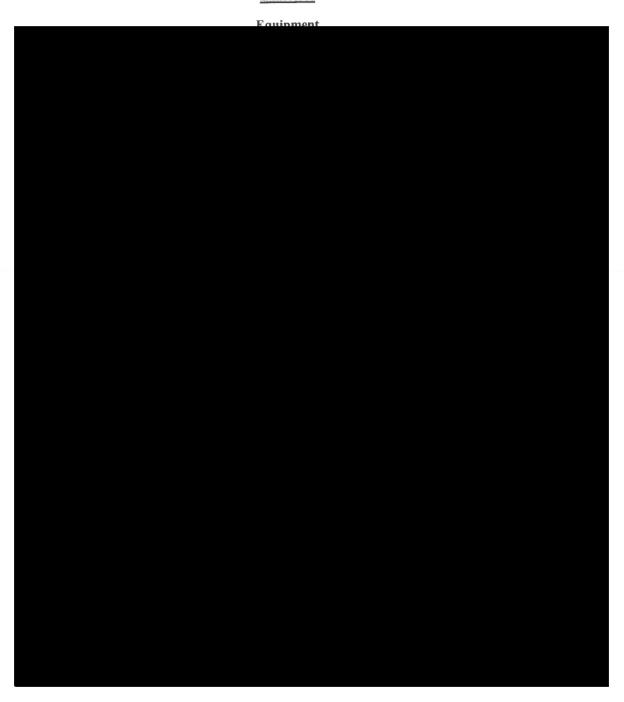
Prometheus Energy Group, Inc. & affiliates

Name: Jim Aivalis

Title: COO

Page 14 of 78

Exhibit A

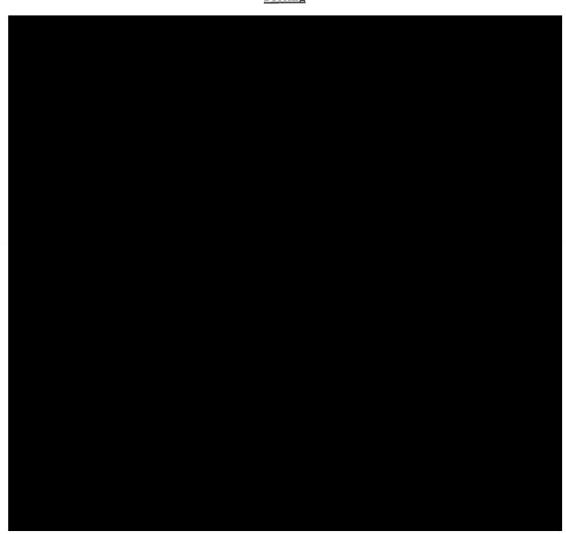




Page 16 of 78

Exhibit B

Pricing



Page 17 of 78

Exhibit C

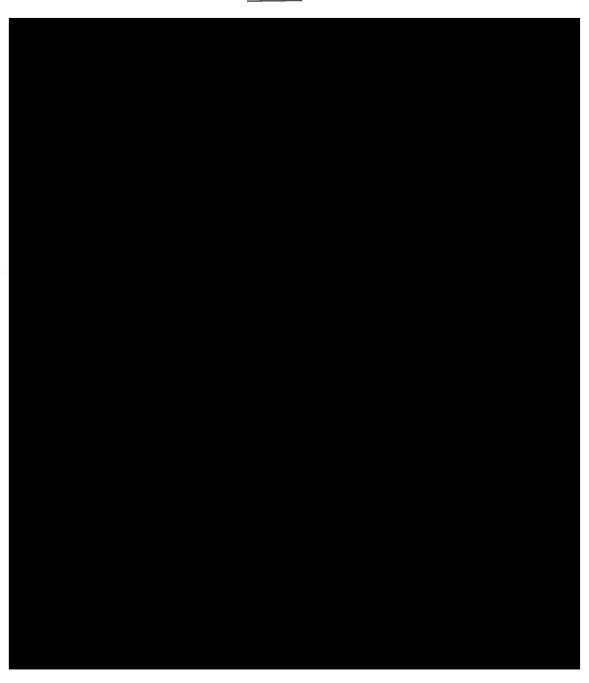


EXHIBIT A

Page 18 of 78

Transaction Confirmation For Immediate Delivery

GDF SUEZ GAS NA LLC

Date: April 1, 2015

Transaction Confirmation: NSB042-8

This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated December 19, 2011. The terms of this Transaction Confirmation are binding unless disputed in writing within two (2) Business Days of receipt unless otherwise specified in the Base Contract.

Seller or Party A:

GDF SUEZ Gas NA LLC 20 City Square, Suite 3 Charlestown, MA 02129 Attn: Contract Administration Telephone: (617) 886-8705 Facsimile: (617) 381-8605

Base Contract No.: NSB042

Buyer or Party B:

The Narragansett Electric Company d/b/a National Grid c/o National Grid 40 Sylvan Road, E3/606 Waltham, MA 02451

Attn: Director Gas Supply Planning Telephone: (781) 907-1639

Electronic Mail: john.alloca@NationalGrid.com

Contract Price: Buyer shall pay to Seller a Contract Price per MMBtu of LNG equal to the following two components:

 Commodity Rate: For each MMBtu of LNG delivered to Buyer during the Delivery Period, Buyer will pay to Seller a rate per MMBtu equal to

II. Call Payment: Additionally, for each Contract Season (as defined below) occurring during the Delivery Period, Buyer shall make a non-refundable call payment to Seller in the amount of

or Firm delivery of LNG as set forth herein ("Call Payment"). The Call Payment due and payable during each Contract Season shall be paid to Seller in eight (8) equal, consecutive, monthly installments of each, commencing in April and continuing through and including November of each Contract Season.

(The Commodity Rate and the Call Payment components (each, as stated on a per MMBtu basis) are hereinafter collectively referred to as the "Contract Price" (per MMBtu)).

Notwithstanding the foregoing, if in the event of Force Majeure (as such event is defined in Section 5.7 of the LNG Annex) occurring on any Day during the Delivery Period Seller is unable to deliver the quantity of LNG nominated by Buyer, and as to which Buyer has made a Call Payment, then for each such Day of the period of Force Majeure (and Seller's failure to deliver), Seller shall refund to Buyer a pro rata portion of the Call Payment which shall be determined by multiplying the quantity of LNG nominated by Buyer but not delivered on each such Day by an amount equal to

III. Quantity Reduction Credit: In the event Buyer elects to decrease the total Contract Quantity in any each Contract Season (as set forth below), Seller shall pay to Buyer a monthly "Quantity Reduction Credit" equal to the following:

If positive, (Seventy-Five percent (75%) * Reduction Quantity) * (AGT Rate - Commodity Rate) / 8, where:

AGT Rate = the arithmetic average of the Midpoint price posted for Algonquin, city-gates, as published in the daily issue of Platts Gas Daily under the "Citygates" section of the "Daily Price Survey", for each Day of the Month

The Quantity Reduction Credit shall be due to Buyer in accordance with Section 7 of the Base Contract, commencing in April and continuing through and including November of each such Contract Season where Buyer has elected to reduce such Contract Quantity.

The term "Contract Season" shall mean each eight (8) month period occurring during the term of the Delivery Period under this Transaction Confirmation which commences on each April 1st of one calendar year and runs through and including each November 30th of the same calendar year, as follows:

Contract Season 1: April 1, 2016, through and including November 30, 2016; Contract Season 2: April 1, 2017, through and including November 30, 2017; Contract Season 3: April 1, 2018, through and including November 30, 2018;

REDACTED

	Contract Season 4:	April 1, 2019, through and including November 30, 2019;
l	Contract Season 5:	April 1, 2020, through and including November 30, 2020;
ı	Contract Season 6:	April 1, 2021, through and including November 30, 2021;
	Contract Season 7:	April 1, 2022, through and including November 30, 2022;
	Contract Season 8:	April 1, 2023, through and including November 30, 2023;
l	Contract Season 9:	April 1, 2024, through and including November 30, 2024.
ı		• • • • •

Delivery Period: April 1, 2016, at 10:00 a.m. Eastern Time (ET) through and including December 1, 2024, at 9:59 a.m. ET.

Performance Obligation and Contract Quantity: Firm Liquid Service

Firm (Variable) Quantity: During each Contract Season, Seller agrees to sell and deliver and Buyer agrees to purchase and receive a quantity of LNG up to but not to exceed: (i) 4,000 MMBtu (up to 4LNG Trucks) of LNG per Day ("Maximum Daily Quantity" or "MDQ"); (ii) 73,000 MMBtu of LNG in any Month ("Monthly Maximum Quantity or "MMQ"); and (iii) a total Contract Quantity for each Contract Season during the Delivery Period of 508,000 MMBtu of LNG, plus any additional quantities required to fill the final LNG Truck to capacity, subject to the following:

Delivery Point(s):

For Firm delivery service of LNG, at the truck loading flange of the Distrigas of Massachusetts LLC marine LNG terminal located in Everett, Massachusetts ("Facility"). Notwithstanding the foregoing, Seller hereby reserves its right to make deliveries to Buyer at Buyer's facilities.

Special Conditions:

- 1) The following is added as a new Section 2.41: "2.41. "Contract Week" shall mean a period of seven (7) days commencing on Monday at 10:00 a.m. ET and running through and including the following Monday, at 9:59 a.m. ET.
- 2) The following sections contained in the Special Provisions shall not apply to service under this Transaction Confirmation: Paragraph 3, Section 2.34; Paragraph 9, Section 3.4, and Paragraph 12, Section 10.2(x).
- 3) Section 4.1 of the LNG Annex is amended as follows: (i) Requests for delivery(ies) of LNG, including dispatch instructions, or variations in rate of delivery; and (ii) requests for delivery of LNG to LNG Trucks, shall be made by Buyer upon providing Notice to Seller not less than ten (10) Business Days prior to the commencement of such Month of delivery. Seller shall confirm Buyer's request(s) and provide to Buyer a schedule of deliveries, including quantities and dates of delivery within three (3) Business Days of receipt. Upon such confirmation, a "Nomination(s)" for LNG shall have occurred which shall also constitute a Firm obligation under the Base Contract. The schedule shall be mutually agreed to by the parties and may be adjusted by either party, upon providing Notice to the other party not later than Wednesday of each Contract Week in such Month of delivery.
- 4) Estimated Schedule of LNG Delivery(ies). Notwithstanding anything contained in Paragraph 3 herein, not less than thirty (30) Days prior to the commencement of each Contract Season during the Delivery Period, Buyer shall provide to Seller a schedule showing the estimated quantities of LNG to be taken in each Month of the current Contract Season during the Delivery Period. The schedule to be provided to Seller pursuant to this section shall not be binding on Buyer but rather shall serve as a guide to aid Seller in planning deliveries of LNG.
- 5) Option to defer a Firm Obligation:

Page 20 of 78



- 6) Transportation/Transportation Costs: The Parties shall use reasonable efforts to schedule deliveries during mutually agreeable times during Business Days. All costs associated with deliveries of LNG at the Facility shall be the responsibility of Buyer unless as otherwise provided for below.
 - I. Seller shall have the right to require Buyer to receive deliveries of LNG on at least four (4) Weekend Days during the Month (unless otherwise agreed to by the Parties). Such Weekend Day deliveries may be scheduled by either Party provided that (i) receipt of such Weekend Day deliveries of LNG will not operationally impact or constrain Buyer and (ii) either (a) Seller agrees to compensate Buyer for any agreed to incremental costs incurred by Buyer if transportation is scheduled by Buyer, or, (b) Buyer agrees to compensate Seller for costs as set forth in (III) below if transportation is scheduled by Seller. For purposes herein, a "Weekend Day" shall be any Saturday or Sunday of each Month (and which does not also constitute a Holiday).
 - II. Seller shall notify Buyer within forty-eight (48) hours of a scheduled delivery in the event Seller elects to make deliveries to Buyer at the facility(ies) so designated by Buyer at the time of scheduling. Any transporter retained by Seller to make deliveries of LNG to Buyer at Buyer's facilities must (i) be approved by Buyer, and (ii) abide by Buyer's safety requirements relating to LNG transportation services.
 - III. Transportation costs incurred by Seller in the event Seller arranges for transportation and makes deliveries of LNG to Buyer at Buyer's facilities on any Business or Weekend Day shall be paid for by Seller provided that Seller shall receive a credit equal to the lesser of: (i) \$0.55 per MMBtu, or (ii) the unit price that would have otherwise been paid by Buyer under its current trucking agreements for deliveries of LNG to its facility(ies). Upon request, Buyer shall provide documentation satisfactory to Seller to support Buyer's trucking costs.
- 7) Any reimbursement(s) due to Buyer and any credit(s) due to Seller, if any, incurred under this Transaction Confirmation shall be netted against Seller's invoice to Buyer in accordance with Section 7 of the Base Contract.
- 8) PUC Consent: The LNG service contemplated under this Transaction Confirmation is contingent upon receipt by Buyer of an indication of support from the Rhode Island Public Utilities Commission ("PUC"). Buyer shall use reasonable efforts to determine whether the PUC is supportive of this transaction on or before March 1, 2016. In the event that Buyer determines, in its sole discretion, the PUC is not supportive of this transaction, Buyer shall provide prompt notification to Seller. Upon such notification, this Transaction Confirmation shall be immediately cancelled and rendered null and void. Each Party shall be released and discharged from any further rights, liabilities and obligations to the other Party with respect to this Transaction Confirmation as of such date of termination. In the event this Transaction Confirmation is cancelled and rendered null and void as a result of lack of support from the PUC, the Parties agree to use good faith efforts to timely negotiate a replacement Transaction Confirmation for the LNG services contemplated herein.
- 9) Dodd-Frank Reporting: The parties agree that service under this Transaction Confirmation represents a Commodity Trade Option, meaning a "commodity option" as defined in CFTC Regulation 1.3(hh) entered into pursuant to CFTC Regulation 32.3 (a), and as of the Trade Date:
 - (i) Seller is: (1) a producer, processor, commercial user of, or a merchant handling, the commodity that is the subject of the Commodity Trade Option, and (2) entering into the Commodity Trade Option solely for purposes related to its business as such;
 - (ii) Buyer is: (1) a producer, processor, commercial user of, or a merchant handling, the commodity that is the subject of the Commodity Trade Option, and (2) entering into the Commodity Trade Option solely for purposes related to its business as such; and
 - (iii) Each party represents to the other party the Commodity Trade Option, if exercised, contains a binding obligation that results in the sale of an "exempt commodity" as defined in Section 1a(20) of the CEA for immediate or deferred shipment or delivery.

Seller shall report this Commodity Trade Option pursuant to the Form TO under the CFTC Regulations and Buyer will report

Page 21 of 78

everything that is required to be reported by it under CFTC Regulation Part 32.

Each party agrees to promptly provide the other party with any information reasonably requested by the other party to enable such other party to comply with Title VII of the Dodd-Frank Wall Street Reform and Consumer Protection Act and CFTC Regulation in connection with this Commodity Trade Option.

- 10) This Transaction Confirmation No. NSB042-8 shall be executed simultaneously with that certain related Transaction Confirmation No. NSB042-7. Service hereunder is contingent upon the simultaneous execution of both Transaction Confirmation Nos. NSB042-7 and NSB042-8 by both Parties. In the event that both such Transaction Confirmations are not signed simultaneously by the Parties, this Transaction Confirmation No. NSB042-8 shall be immediately cancelled and rendered null and void without ever having been effected. Each Party shall be immediately released and discharged from any further rights, liabilities and obligations to each other with respect to this Transaction Confirmation as of such date of cancellation
- 11) Seller and Buyer acknowledge and agree that for purposes of LNG sales described in this Transaction Confirmation, the terms and conditions of the Base Contract, as modified and supplemented by the terms and conditions of the Special Provisions and the LNG Annex, shall govern all sales of LNG; provided however, that in the event of a conflict between the terms and conditions of (i) the Transaction Confirmation, (ii) the LNG Annex, (iii) the Special Provisions, and (iv) the Base Contract, the terms and conditions of the documents shall govern in the priority listed in this provision.
- 12) Capitalized terms used herein and not otherwise defined shall have the meaning set forth in the Base Contract, as amended by any Special Provisions, and the LNG Annex.

Seller or Party A:

GDF SUEZ Gas NA LLC

Name: Title: Date:

Francis J. Katulak President & CEO April <u>2</u>, 2015

Buyer or Party B:

The Narragansett Electric Company d/b/a National Grid

Ву: Vaugnn Name: John Title:

Authorized Signator Date:

JAW-DA

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Page 22 of 78 Amendment ID# 3766 \ LTD CONTRACT ID# 4164 4162000001

AMENDMENT No. 1 To

TRANSACTION CONFIRMATION NSB042-8

This Amendment No. 1 ("Amendment No. 1"), dated as of January 25, 2016, is made to that certain Transaction Confirmation NSB042-8, entered into by and between ENGIE Gas & LNG LLC, formerly known as GDF SUEZ Gas NA LLC ("Seller" or "Party A") and The Narragansett Electric Company d/b/a National Grid ("Buyer" or "Party B") and dated April 1, 2015 ("TC NSB042-8"). Seller and Buyer are collectively referred to herein as the "Parties."

WHEREAS, Seller and Buyer now wish to amend TC NSB042-8 as set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, Buyer and Seller agree to amend TC NSB042-8 as follows:

Effective as of the date hereof, Paragraph 8 contained in the Special Conditions section of TC NSB042-8 is hereby changed and amended by deleting the second and third sentences thereof in their entirety and replacing them with the following:

"Buyer shall use due diligence to obtain and provide satisfactory evidence of such regulatory approval for this Transaction Confirmation to Seller within two (2) Business Days of its receipt and not later than April 1, 2016. Notwithstanding the Delivery Period set forth herein, and subject to Buyer's nomination procedures set forth herein, services for deliveries of LNG hereunder shall not commence until such approval is received by Seller. In the event the DPU rejects Buyer's request and does not grant regulatory approval for the LNG services herein (and such satisfactory evidence of the DPU's rejection is provided to Seller within two (2) Business Days of issuance), or such regulatory approval by the DPU has not been granted by April 1, 2016, this Transaction Confirmation shall be immediately cancelled and rendered null and void."

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 1 to be executed by their duly authorized representatives as of the date hereinabove written.

ENGIE Gas & LNG LI

Signature: Name:

Title:

Rudolph R. Adamiak

Senior Vice President

The Narragansett Electric Company d/b/a National Grid

Signature:

Name: Title:

John V. Vaudh orized



Ansender 12 # 3824 1000006546 (TO CONTRACT 12 # 4164)

Amendment No. 2 to Transaction Confirmation No. NSB042-8

This Amendment No. 2 ("Amendment No. 2"), dated as of March 24, 2016, is made to that certain Transaction Confirmation NSB040-5 dated as of April 1, 2015 ("TC-NSB042-8"), entered into by and between ENGIE Gas & LNG LLC, formerly known as GDF SUEZ Gas NA LLC ("Seller" or "Party A") and The Narragansett Electric Company d/b/a National Grid ("Buyer" or "Party B"). Seller and Buyer are collectively referred to herein as the "Parties."

WHEREAS, the Parties entered into that certain 2006 North American Energy Standards Board, Inc. ("NAESB") Base Contract for Sale and Purchase of Natural Gas effective as of December 19, 2011, as supplemented and modified by the Special Provisions dated as of December 19, 2011, the Liquefied Natural Gas Annex dated as of December 19, 2011, and this Transaction Confirmation No. NSB042-8 dated as of April 1, 2015, (together, the "NAESB Base Contract").

WHEREAS, Seller and Buyer have amended certain provisions contained TC NSB042-8 under that certain Amendment No. 1 dated as of January 25, 2016 (the NAESB Base Contract, and this Amendment No. 1, collectively hereinafter referred to as the "Base Contract"), and

WHEREAS, Seller and Buyer wish to further amend certain provisions contained in TC NSB042-8 as set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, Buyer and Seller agree to amend TC NSB042-8 as follows:

 The first paragraph of Section II. Call Payment contained in the Contract Price section of TC NSB042-8 is hereby deleted in its entirety and replaced with the following language:

"II. Call Payment: Additionally, for Contract Seasons 2 through 5 (as defined below)

occurring during the Delivery Period, Buyer shall make a non-refundable call payment to Seller in the amount of

for Firm delivery of LNG in each such Contract Season ("Call Payment"). The Call Payment due and payable during each of these Contract Seasons 2 through 5 shall be paid to Seller in eight (8) equal, consecutive, monthly installments of each, commencing in April and continuing through and including November for each such Contract Season (2 through 5); provided, however, that for only Contract Season 1, Buyer shall pay to Seller a nonrefundable Call Payment in the amount of

The Call Payment due in Contract Season 1 shall be paid to Seller in six (6) equal, consecutive, monthly installments of each and one (1) final payment of commencing in May 2016 through and including November 2016 of Contract Season 1."



Page 24 of 78



 The term "Contract Season" as it is contained in the Contract Price section of TC NSB042-8, is hereby deleted in its entirety and replaced with the following amended and modified definition:

"The term "Contract Season" shall mean each eight (8) month period occurring during the term of the Delivery Period under this Transaction Confirmation which commences on each April 1st of one calendar year and continues through and including each November 30th of the same calendar year; provided, however that Contract Year 1 shall commence on May 15, 2016, and continue through and including November 30th of the same contract year, as follows:

"Contract Season 1: May 15, 2016, through and including November 30, 2016; Contract Season 2: April 1, 2017, through and including November 30, 2017; Contract Season 3: April 1, 2018, through and including November 30, 2018; Contract Season 4: April 1, 2019, through and including November 30, 2019; Contract Season 5: April 1, 2020, through and including November 30, 2020."

"For the avoidance of doubt, Contract Seasons 6 through 9 as contained in the original Transaction Confirmation are hereby deleted in their entirety."

3. The Delivery Period contained in TC NSB042-8 is hereby deleted in its entirety and replaced with the following amended and modified period:

"May 15, 2016, at 10:00 a.m. Eastern Time (ET) through and including December 1, 2020, at 9:59 a.m. ET."

4. The first paragraph contained under the Performance Obligation and Contract Quantity section of TC NSB042-8 is hereby amended and modified as follows:

"For only Contract Season 1, the total Contract Quantity of LNG available to Buyer is reduced and restated from 508,000 MMBtu to 412,750 MMBtu, plus any additional quantities required to fill the final LNG Truck to capacity. For the avoidance of doubt, the MDQ and MMQ shall remain the same for Contract Season 1."

5. Paragraph 8 contained in the Special Conditions section of TC NSB042-8 is hereby further amended and modified by deleting the second and third sentences thereof in their entirety and replacing them with the following:

"Buyer shall use due diligence to obtain and provide satisfactory evidence of such regulatory approval for this Transaction Confirmation to Seller within two (2) Business Days of its receipt and not later than May 15, 2016. Notwithstanding the Delivery Period set forth herein, and subject to Buyer's nomination procedures set forth herein, services for deliveries of LNG hereunder shall not commence until such approval is received by Seller. In the event the DPU rejects Buyer's request and does not grant regulatory approval for the LNG services herein (and such satisfactory evidence of the DPU's rejection is provided to Seller within two (2) Business Days of issuance), or such

Attachment DIV 1-28

Page 25 of 78

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regulatory approval by the DPU has not been granted by May 15, 2016, this Transaction Confirmation shall be immediately cancelled and rendered null and void."

- Capitalized terms used herein but not otherwise defined in this Amendment No. 2 shall have the meaning ascribed to them in the Base Contract and TC NSB042-8, as amended.
- 7. Except as expressly amended, modified and supplemented herein, all of the terms and conditions of the Base Contract shall remain in full force and effect. In the event of a conflict between the terms and conditions of the Base Contract, and this Amendment No. 2, the terms and conditions of this Amendment No. 2 shall govern.

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 2 to be executed by their duly authorized representatives as of the date hereinabove written.

ENGIE Gas & LNG LLC

 $1/000 \int 0$

Name: Rudolph R. Adamiak
Title: Senior Vice President

Senior Vice President

The Narragansett Electric Company

Name: John Vaught Title: Authorized Signatory

d/b/a National Grid

By:

15K

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THIRD AMENDMENT TO TRANSACTION CONFIRMATION: NSB042-8

This Third Amendment to Transaction Confirmation NSB042-8 ("Third Amendment") is made and entered into this 6th day of December, 2019, by and between The Narragansett Electric Company d/b/a National Grid ("Buyer") and Constellation LNG LLC ("Seller"). Buyer and Seller are sometimes collectively referred to herein as the "Parties" or individually as a "Party."

WITNESSETH:

WHEREAS, Buyer and ENGIE Gas & LNG LLC (f.k.a. GDF Suez Gas NA LLC) were parties to that certain Transaction Confirmation NSB042-8 dated as of April 1, 2015 as amended from time to time (the "Transaction Confirmation"), which was assigned by ENGIE Gas & LNG LLC to Seller effective October 1, 2018; and

WHEREAS, the Parties desire to further amend the Transaction Confirmation as set forth below.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and intending to be legally bound, Buyer and Seller agree as follows:

- 1. The "Contract Season" for Contract Season 4 is hereby extended from November 30, 2019 to and including December 6, 2019.
- 2. This Third Amendment may be executed in multiple counterparts, each of which shall be deemed an original, and all of which taken together shall constitute one and the same agreement. This Third Amendment may be executed and delivered by facsimile, electronic communication in portable document format (.pdf), or similar transmission. Any such facsimile or electronic signature shall have the same legal effect as manual signatures.
- 3. Except as amended herein, the Transaction Confirmation shall continue in full force and effect according to its original terms and conditions.

IN WITNESS WHEREOF, the Parties have caused their duly authorized representatives to execute this Third Amendment to Transaction Confirmation on the date first set forth above.

National Grid	Constellation DNG, LLC	
(XX)		
Ву:	By: 10 Quantum	
Name: John V. Vaughn	Name: Ravi Ganti	
Title: Authorized Signatory	Title: Vice President	

The Narragansett Electric Company d/b/a National Grid

d/b/a National Grid RIPUC Docket No. 5066

Attachment DIV 1-28 Page 27 of 78

Arrendment 10+4221 LTD CONTRACT 10 # 4164

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Natiagance +

Prag, Janet A. (Marketing)

From: Cahill, Edward < Edward.Cahill@na.engie.com>

Sent: Tuesday, February 28, 2017 2:48 PM

To: Jaffe, Samara A. (Marketing)

Cc: Arangio, Elizabeth C. (Marketing); Allocca, John E. (Marketing); Papetti, Dino C.

(Marketing); Spencer, Brian D. (Marketing); Prag, Janet A. (Marketing); Culliford, Nancy

G. (Marketing); Guadagno, Saundra; Taake, Steven

Subject: EXT || RE: Reduction Quantity Election Under each of NSB039-11, NSB040-5 and

NSB042-8

Hi Samara

I have received your email regarding the Firm Liquid Service Reduction Quantity Election and will check the resulting MMQ's and MDQ's and revert shortly.

Thanks

Ed

From: Jaffe, Samara A. (Marketing) [mailto:Samara.Jaffe@nationalgrid.com]

Sent: Tuesday, February 28, 2017 2:40 PM

To: Cahill, Edward

Cc: Arangio, Elizabeth C. (Marketing); Allocca, John E. (Marketing); Papetti, Dino C. (Marketing); Spencer, Brian D. (Marketing); Prag, Janet A. (Marketing); Culliford, Nancy G. (Marketing); Guadagno, Saundra; Taake, Steven

Subject: Reduction Quantity Election Under each of NSB039-11, NSB040-5 and NSB042-8

Importance: High

Good afternoon Ed!





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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 28 of 78

Please confirm you are in agreement with the resulting MMQs and MDQs and contact me if you have any questions.

Thank you!

Samara Jaffe

nationalgrid
Program Manager- FERC Compliance & Contracting
100 E. Old Country Road
Hicksville, NY 11801
T: (516) 545-5408
C: (516) 418-9906
AIM: SamaraKeySpan

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Contract 1D#1810

LNG003

SERVICE AGREEMENT (Applicable to Service Under Rate Schedule FST-LG)

18EcococoT

This Agreement, is made and entered into this <u>life</u> day of <u>December</u>, 1998, by and between Algonquin LNG, Inc., a Delaware corporation (hereinafter referred to as "ALNG") and Providence Gas Company a (hereinafter referred to as "Customer" whether one or more persons).

WHEREAS, Customer desires to obtain from ALNG firm storage service pursuant to the terms and conditions of ALNG's Rate Schedule FST-LG; and

WHEREAS, in order for ALNG to provide the firm service Customer desires ALNG must install certain additional facilities and in connection therewith Customer and ALNG have entered into a precedent agreement dated **December!** 1998 ("Precedent Agreement") to provide for certain terms and conditions related to the firm service to be provided pursuant to this Agreement; and

WHEREAS, pursuant to the terms and conditions of the Precedent Agreement and this Agreement ALNG desires to provide firm service to customer;

In consideration of the premises and of the mutual covenants herein contained, the parties do agree as follows:

ARTICLE I QUANTITY OF LNG TO BE STORED

Subject to the terms, conditions and limitations hereof and of ALNG's Rate Schedule FST-LG, ALNG agrees to:

- receive for Customer's account and inject into its storage facility liquefied natural gas ("LNG") in liquid form;
- store up to a maximum quantity at any one time of 600,000 Dth, to constitute Customer's Contract Storage Quantity ("CSQ"); and
- withdraw up to a Maximum Daily Withdrawal Quantity ("MDWQ") of 95,000 Dth/d of stored gas as requested by Customer and deliver it to Customer or for Customer's account.

SERVICE AGREEMENT (Applicable to Service Under Rate Schedule FST-LG) (continued)

ARTICLE II TERM OF AGREEMENT

2.1 This Agreement shall be effective as of the date first above written. Service under this Agreement shall commence on the date specified by ALNG in ALNG's written notification to Customer that all conditions precedent set forth in the Precedent Agreement have been satisfied or waived and that all necessary facilities are completed and available for service, which date will not be prior to November 1, 1999. After service commences under this Agreement, this Agreement shall continue in effect until and including May 1, 2009 ("Primary Term") and shall remain in force from year-to-year thereafter unless terminated by either party pursuant to Section 12 of the General Terms and Conditions; provided, however, that subject to twelve months prior written notice, Customer shall have the right to extend the term of this Agreement through and including May 1, 2019. In the event that the Precedent Agreement is terminated for any reason other than commencement of service pursuant to this Agreement, then service under this Agreement shall not commence and this Agreement shall be null and void.

ARTICLE III RATE SCHEDULE AND ADJUSTMENTS

3.1 Customer shall pay for all services rendered hereunder and for the availability of such service under ALNG's Rate Schedule FST-LG, as filed with the Federal Energy Regulatory Commission, and as the same may be hereafter revised or changed. The rate to be charged Customer for storage hereunder shall not be more than the maximum rate under Rate Schedule FST-LG, nor less than the minimum rate under Rate Schedule FST-LG.

Customer agrees that ALNG shall have the unilateral right to file with the appropriate regulatory authority and make changes effective in (a) the rates and charges applicable to service pursuant to ALNG's Rate Schedule FST-LG, (b) ALNG's Rate Schedule FST-LG, pursuant to which service hereunder is rendered or (c) any provision of the General Terms and Conditions applicable to Rate Schedule FST-LG. ALNG agrees that Customer may protest or contest the aforementioned fillings, or may seek authorization from duly constituted regulatory authorities for such adjustment of ALNG's existing FERC Gas Tariff as may be found necessary to assure that the provisions in (a), (b), or (c) above are just and reasonable.

Page 31 of 78

SERVICE AGREEMENT (Applicable to Service Under Rate Schedule FST-LG) (continued)

ARTICLE IV ADDRESSES

Except as herein otherwise provided, or as provided in the General Terms and Conditions of ALNG's FERC Gas Tariff, any notice, request, demand, statement, bill or payment provided for in this Agreement, or any notice which any party may desire to give to the other, shall be in writing and shall be considered as duly delivered when mailed by registered, certified, or first class mail to the post office address of the parties hereto, as the case may be, as follows:

(a) Pipeline: Algonquin LNG, Inc. 5400 Westheimer Ct. Houston, Tx 77056

(b) Customer: Providence Gas Company 100 Weybosset Street Providence, RI 02903

or such other address as either party shall designate by formal written notice.

ARTICLE V RATE SCHEDULES AND GENERAL TERMS AND CONDITIONS

This Agreement and all terms and provisions contained or incorporated herein are subject to the provisions of ALNG's applicable rate schedules and of ALNG's General Terms and Conditions on file with the Federal Energy Regulatory Commission, or other duly constituted authorities having jurisdiction, and as the same may be legally amended or superseded, which rate schedules and General Terms and Conditions are by this reference made a part hereof.

ARTICLE VI INTERPRETATION

The interpretation and performance of this Agreement shall be in accordance with the laws of the state of Rhode Island, excluding conflicts of law principles that would require the application of the laws of a different jurisdiction.

Page 32 of 78

SERVICE AGREEMENT
(Applicable to Service Under Rate Schedule FST-LG)
(continued)

ARTICLE VII AGREEMENTS BEING SUPERSEDED

This Agreement shall supersede (as of the date of commencement of service hereunder as specified in ARTICLE II of this Agreement) the following agreements between the parties hereto for the storage of natural gas by ALNG for Customer:

Rate Schedule X-4, dated October 1, 1971, included in ALNG's FERC Gas Tariff, Fourth Revised Volume No. 2; and Rate Schedule FST-LG service agreement dated November 1, 1993.

LNG003

4

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 33 of 78

SERVICE AGREEMENT (Applicable to Service Under Rate Schedule FST-LG) (continued)

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed by their respective agents thereunto duly authorized, the day and year first above written.

ALGONQUIN LNG, INC.

By: Jellaney ON

Title: VICE PRESIDENT

PROVIDENCE GAS COMPANY

By: Jam, on it

Title: Sp. J.A.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 34 of 78

Duke Energy,

Duke Energy,

Gas Transmission

A Duke Energy Company

Gregory J. Rizzo Sr. Vice President Marketing & Capacity Management Duke Energy Gas Transmission Corporation 5400 Westheimer Ct. (6J70) Houston, TX 77056-5310

Mailing Address
P.O. Box 1642
Houston, TX 77251-1642
(713) 627-4707 OFFICE
(713) 627-4727 FAX
gjrizzo@duke-energy.com

November 22, 2002

T000000395

New England Gas Company, Successor to Providence Gas Company 100 Weybosset Street Providence, RI 02903 Attn: Gary Beland, Director, Gas Supply

Re: Amendment to discount agreement dated November 11, 1999

Dear Gary:

Algonquin LNG, LP ("ALNG"), formerly Algonquin LNG, Inc., and New England Gas Company, successor to Providence Gas Company ("NEGCo"), are parties to that certain agreement (the "Discount Agreement") dated November 11, 1999, whereby ALNG agreed to charge NEGCo and NEGCo agreed to pay ALNG a discounted rate for service under Contract No. LNG003. ALNG and NEGCo desire to extend the Discount Term of the Discount Agreement as set forth herein. In consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, ALNG and NEGCo hereby agree as follows:

- 1. The first sentence of the second paragraph of the Discount Agreement shall be revised as follows: "This Agreement shall become effective on the date upon which service under the Service Agreement commences and shall remain in effect through and including November 09, 2005."
- 2. Except as set forth in Paragraph 1 above, all other terms and conditions of the Discount Agreement shall remain unchanged.

If the terms and conditions set forth herein are in accordance with your understanding of our agreement, please have a duly authorized officer execute both copies of this

Page 35 of 78

Amendment to November 11, 1999 Discount Agreement November 22, 2002 Page 2

Amendment to the Discount Agreement in the space provided below and return one fully executed original to ALNG.

Very truly yours,

ALGONQUIN LNG, LP By its General Partner Algonquin Energy, Inc.

Gregory J. Rizzo, Senior Vice Presiden

ACCEPTED AND AGREED TO THIS ___ DAY OF NOVEMBER, 2002

NEW ENGLAND GAS COMPANY, successor to PROVIDENCE GAS COMPANY

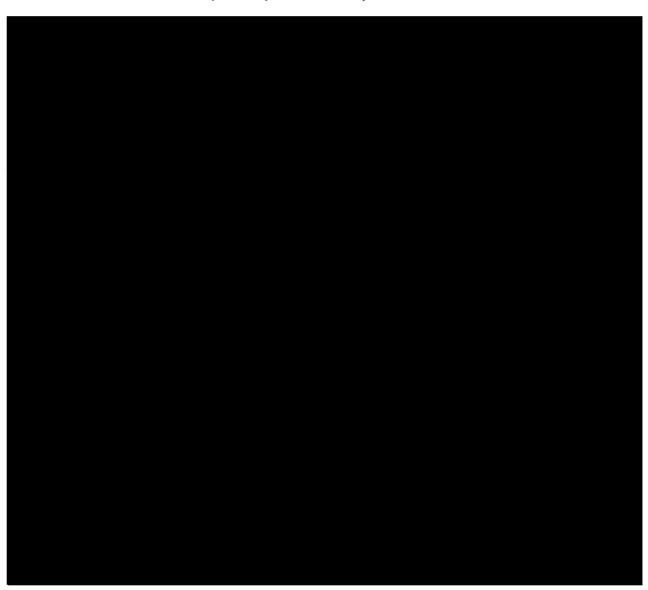
Name: Sharon Partridge

Title: Vice President Finance

APPROVED AS TO

Equipment Rental and Support Services Agreement

This Equipment Rental and Support Services Agreement (this "Agreement") is entered into this 12 th day of September, 2018 (the "Effective Date") by and between Prometheus Energy Group Inc., a Delaware corporation ("Prometheus"), and The Narragansett Electric Company d/b/a National Grid ("Customer"). Prometheus and Customer are sometimes hereinafter referred to individually as "Party" and collectively as the "Parties".



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

Attachment DIV 1-28

Page 37 of 78

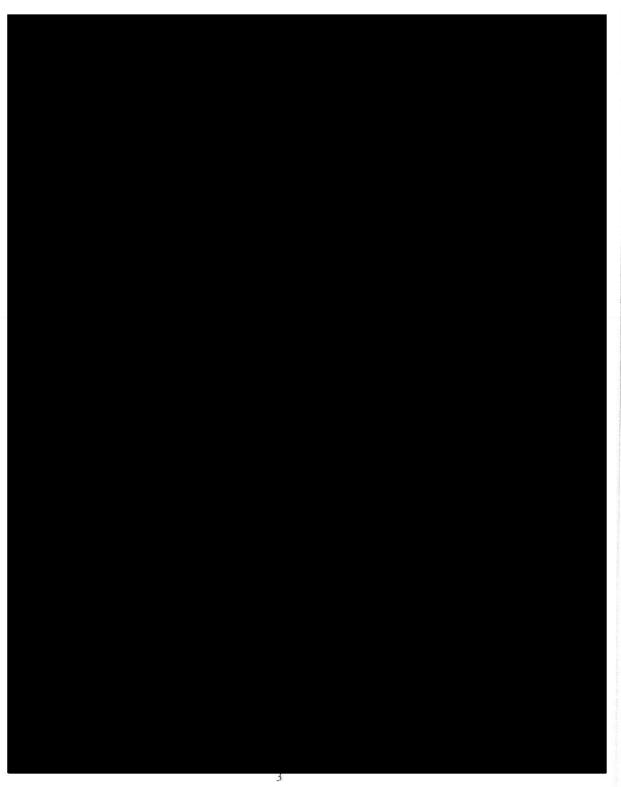


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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

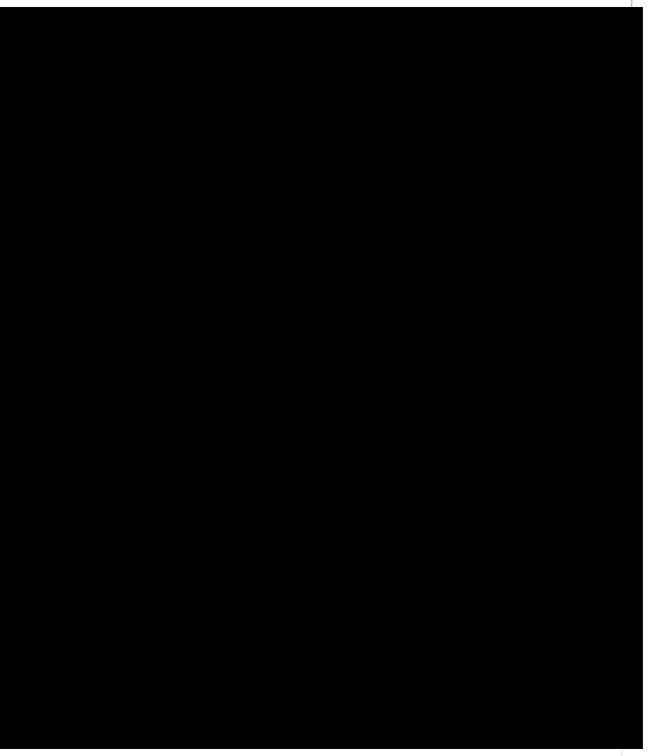
Attachment DIV 1-28

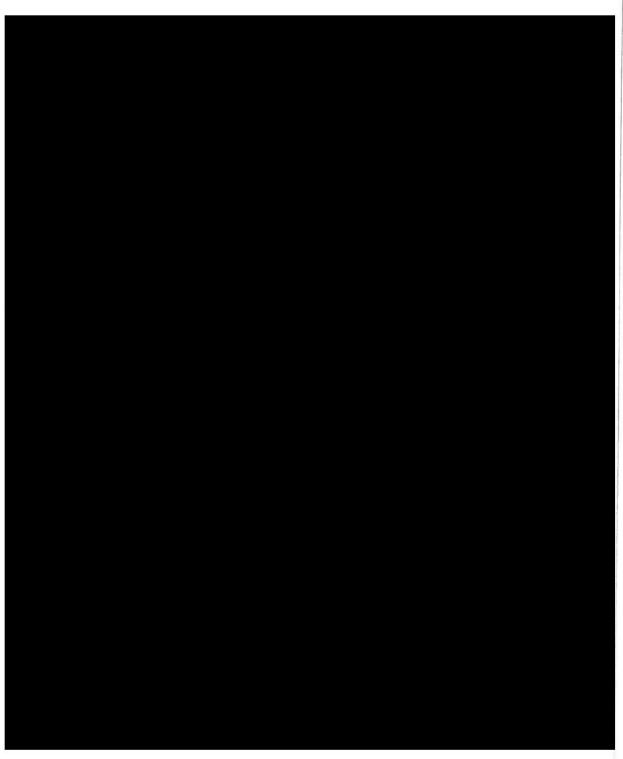
Page 38 of 78



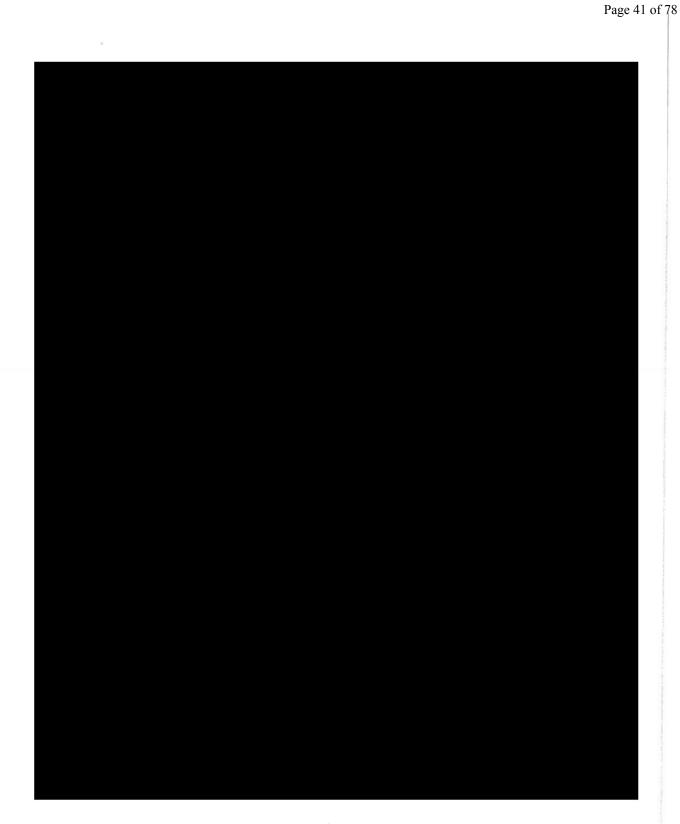
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Attachment DIV 1-28 Page 39 of 78





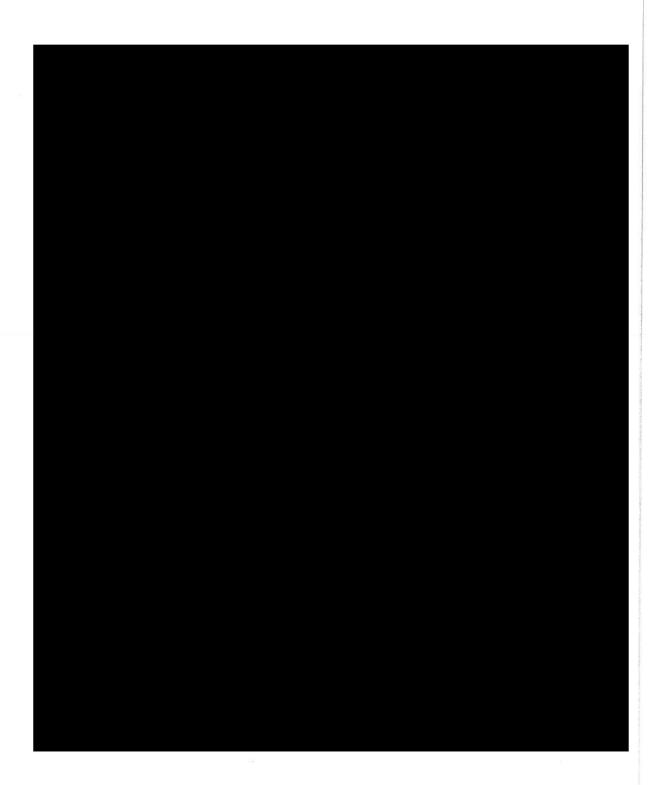
Attachment DIV 1-28



Attachment DIV 1-28 Page 42 of 78



Attachment DIV 1-28 Page 43 of 78

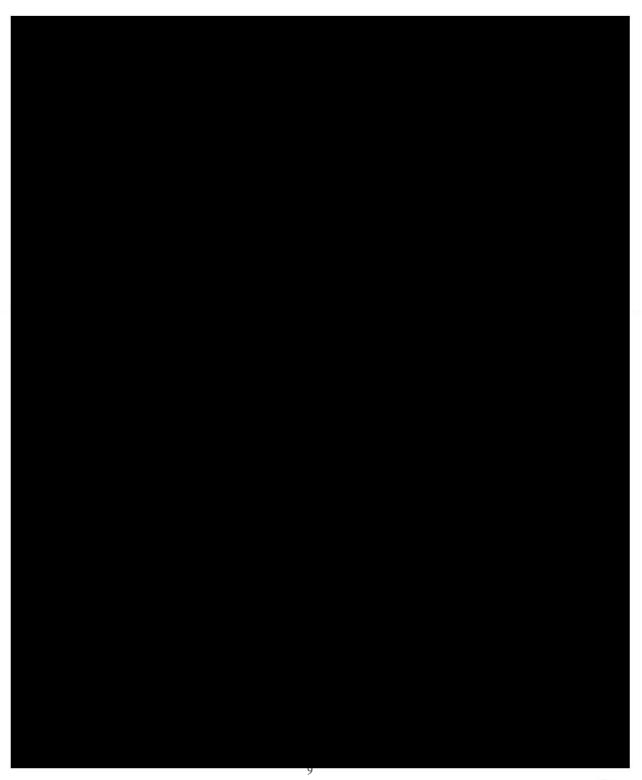




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066

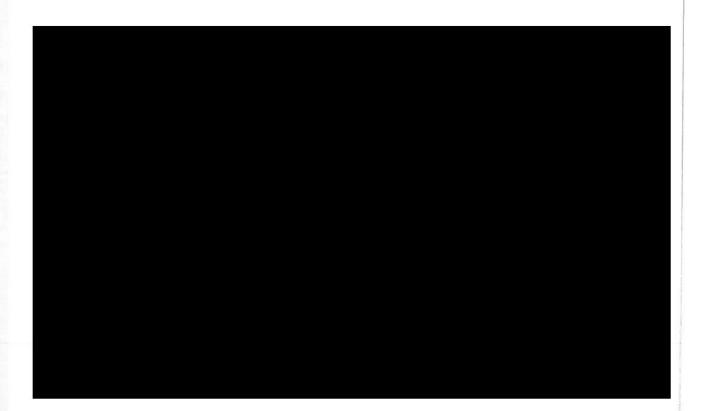
REDACTED

Attachment DIV 1-28
Page 44 of 78



Attachment DIV 1-28

Page 45 of 78



IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed on the date set forth above.

The Narragansett Electric Company

d/b/a National Grid.

Ву:

Title: Authorized Signatory

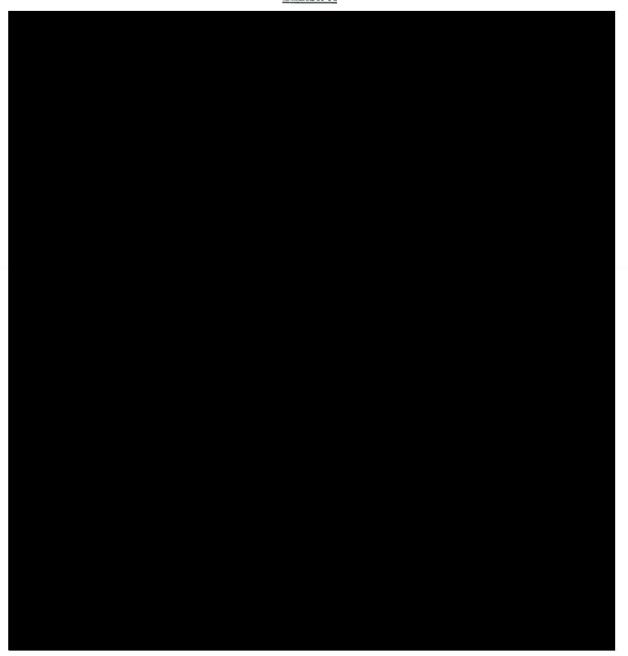
Prometheus Energy Group, Inc.

Name: Jim Aivalis

Title: CEO & President

Page 46 of 78

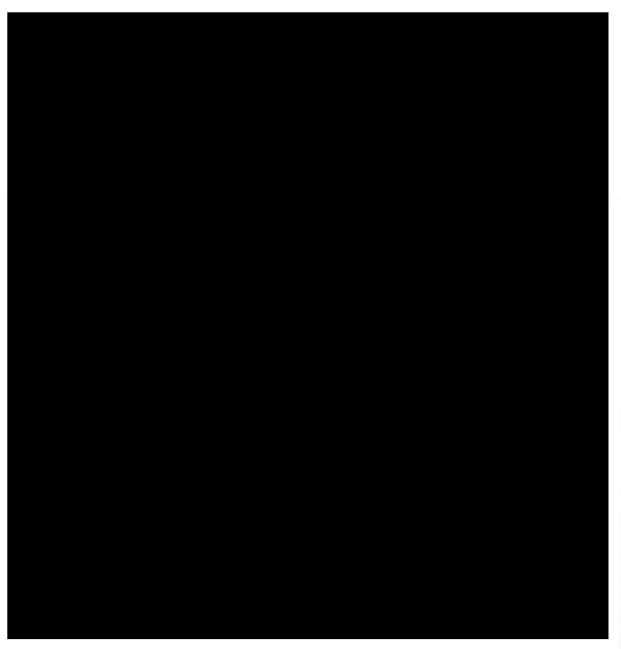
Exhibit A



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28

Page 47 of 78

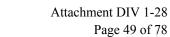
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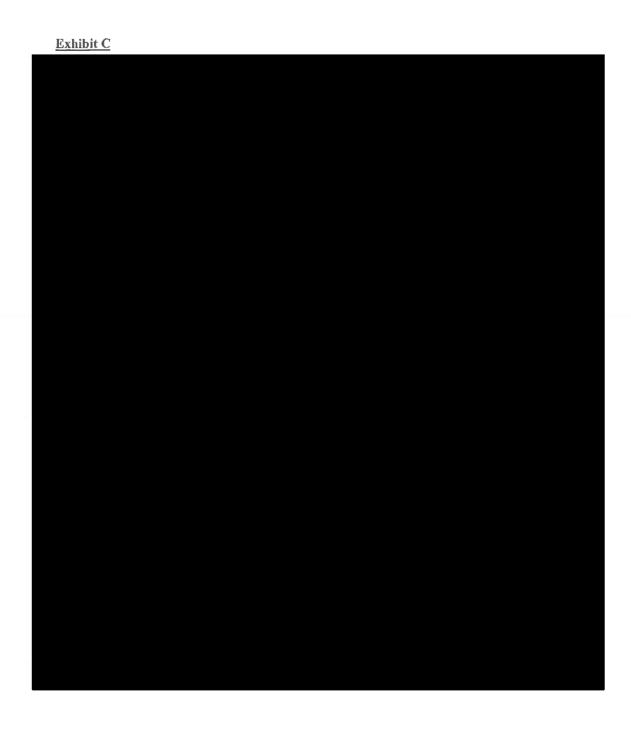


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 48 of 78

Exhibit B







Transaction Confirmation

Date: 08 23 2019

This Transaction Confirmation is subject to the LNG Transportation Services
Agreement between National Grid and <u>LP Transportation. Inc.</u> ("Transporter"), dated
April 1, 2013 ("Agreement").

All capitalized terms used in this Transaction Confirmation and not otherwise defined shall have the meanings assigned to them in the Agreement.

The tables included as Attachment A set forth the Delivery Points, Cost per lb., and Estimated Cost per Load for Receipts from Constellation LNG, LLC ("Constellation")'s facility at 18 Rover Street, Everett, MA 02149.

Delivery Period: On any Day during the term(s) April 1, 2019 through and including December 1, 2019 and April 1, 2020 through and including December 1, 2020. National Grid shall have the right, but not the obligation, to call on Transporter to deliver to the Delivery Point(s) in order to serve National Grid. For each of the 2019 and 2020 Delivery Periods, Transporter shall make available to National Grid the resources necessary to move the National Grid's contracted for supply from Constellation to the Delivery Point(s).

No later than March 2, 2020, National Grid shall communicate to Transporter the estimated volume needed to meet the refill requirements at the Delivery Point(s) for the 2020 refill season.

Loads in Excess of Transporter's Resources: If on any day during the Delivery Period National Grid requires loads in excess of Transporter's obligations pursuant to this Transaction Confirmation at those Delivery Point(s) other than Dorchester, MA or So. Yarmouth, MA, National Grid shall look first to Transporter to fulfill this requirement. If Transporter is unable to meet the request for a given day, National Grid may utilize a third-party carrier for such deliveries to these Delivery Point(s).

Pricing: For Loads transported hereunder, National Grid shall pay Transporter the Cost in Attachment A to this Transaction Confirmation.

Special Conditions:

 This Transaction Confirmation was awarded pursuant to National Grid's Request for Proposals for LNG Transportation dated February 14, 2019 and the exhibits attached thereto, which are incorporated into and made a part hereof.

Attachment DIV 1-28 Page 51 of 78

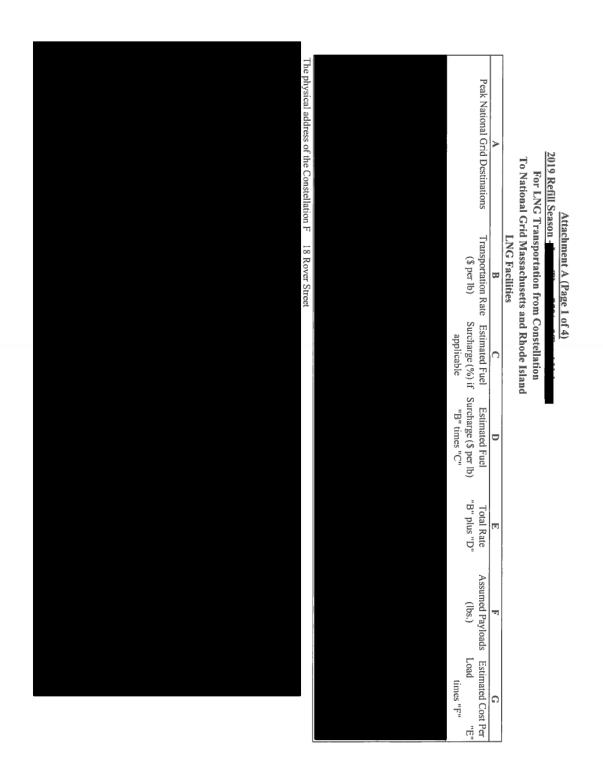
LP Transportation, Inc.

National Grid USA Service Company, Inc.

By:

ODERATING OFFICER Title

Name: John Authorized Signatory



Attachment A (Page 2 of 4)

2019 Refill Season -

For LNG Transportation from Constellation To National Grid Massachusetts and Rhode Island

	G	Assumed Payloads Estimated Cost Per (1bs.) "E" times "F"
	Ŧ	Assumed Payloads (Ibs.)
	Ε.	Total Rate "B" plus "D"
	D	Estimated Fuel Estimated Fuel Surcharge (%) if Surcharge (\$ per lb) applicable "B" times "C"
	Э	Estimated Fuel Surcharge (%) if applicable
LNG Facilities	В	Transportation Rate Estimated Fuel (\$ per lb) Surcharge (%) if Sucharge (%) if Surcharge (%
	A	Peak National Grid Destinations Transportation Rate Estimated Fuel E (\$ per lb) Surcharge (%) if Sur applicable applicable in the first form of the following surface of th

In addition, Proposals must include any and all charges applicable for the transportation service of the product to the Company's LNG facilities. The physical address of the Constellation Facility: 18 Rover Street, Everett MA 02149

Attachment DIV 1-28

Page 54 of 78

Attachment A (Page 3 of 4)

For LNG Transportation from Constellation
To National Grid Massachusetts and Rhode Island

LNG Facilities

	The same of the sa					
Α	В	С	D	E	Ŧ	G
Peak National Grid Destinations	Transportation Rate Estimated Fuel (\$ per lb) Surcharge (%) i	Estimated Fuel Surcharge (%) if	Estimated Fuel Estimated Fuel Surcharge (%) if Surcharge (\$ per lb)	Total Rate "B" plus "D"	Assumed Payloads Estimated Cost Per (lbs.) Load "E'	Estimated Cost Per Load "E"
		applicable	"B" times "C"	בו מונק בו		times "F"
The physical address of the Constellation Facility: 18 Rover Street, Everett MA 02149	Facility: 18 Rover Stree	et, Everett MA 021	149			
In addition, Proposals must include any and all charges applicable for the transportation service of the product to	nd all charges applicabl	e for the transporta	ation service of the produ	uct to the Compan	the Company's LNG facilities.	

Attachment A (Page 4 of 4) 2020 Refill Season - 75% or More of Total Volume For LNG Transportation from Constellation To National Grid Massachusetts and Rhode Island LNG Facilities

		PIAC LACITIES					
_	A	В	С	D	E	F	G
	Peak National Grid Destinations	Transportation Rate Estimated Fuel	Estimated Fuel	Estimated Fuel	Total Rate	Assumed Payloads Estimated Cost Per	Estimated Cost Per
		(\$ per lb)	Surcharge (%) if	Surcharge (%) if Surcharge (\$ per lb)	"B" plus "D"	(lbs.)	Load
			applicable	"B" times "C"			"E" times "F"
	The physical address of the Constellation Facility: 18 Rover Street, Everett MA 02140	1 Facility: 18 Rover Stre	et, Everett MA 02	140			
ı	In addition, Proposals must include any and all charges applicable for the transportation service of the product to the Company's LNG facilities.	and all charges applicabl	le for the transport	ation service of the proc	uct to the Compar	y's LNG facilities.	

Transaction Confirmation

Date: March 20, 2019

This Transaction Confirmation is subject to the LNG Transportation Services Agreement between National Grid and <u>Transgas Inc.</u> ("Transporter"), dated April 1, 2013 ("Agreement").

All capitalized terms used in this Transaction Confirmation and not otherwise defined shall have the meanings assigned to them in the Agreement.

The table below sets forth the Delivery Points, Cost per lb., and Estimated Cost per Load for Receipts from Constellation LNG, LLC ("Constellation") 's facility at 18 Rover Street, Everett, MA 02149.

Delivery Point (Nat. Grid Facility)	Estimated Billing Transportation Rate (per cwt) before Diesel Fuel Surcharge
Dorchester, MA	
(5:01am-6:59pm)	
Dorchester, MA	
(7:00pm-5:00am)	
So. Yarmouth, MA	

Delivery Period: On any Day during the term(s) April 1, 2019 through and including December 1, 2019 and April 1, 2020 through and including December 1, 2020. National Grid shall have the right, but not the obligation, to call on Transporter to deliver to the Delivery Point(s) in order to serve National Grid. Notwithstanding the foregoing, National Grid shall make all reasonable efforts to levelize Transporter's resources and deliveries between the Delivery Point(s). For the 2019 refill season, Transporter shall make available to National Grid the resources necessary to deliver from Constellation's facility to the National Grid Delivery Point(s)

No later than March 2, 2020, National Grid shall communicate to Transporter the estimated volume needed to meet the refill requirements at the Delivery Point(s) for the 2020 refill season; for the 2020 refill season Transporter shall make available to National Grid the resources necessary to deliver such quantity from Constellation's facility by calculating such total volume divided by delivery days during the season.



Pricing: For Loads transported hereunder, National Grid shall pay Transporter the Cost identified above plus such additional charges agreed to by the Parties and set forth in Attachment A to this Transaction Confirmation ("Transgas Standard Terms and Conditions").

Special Conditions:

- 1. This Transaction Confirmation was awarded pursuant to National Grid's Request for Proposals for LNG Transportation dated February 14, 2019 and the exhibits attached thereto, which are incorporated into and made a part hereof.
- 2. For avoidance of doubt, if, during the Delivery Period, for volumes transported from Constellation to the Delivery Point(s), Transporter is unable to satisfy its obligations to National Grid pursuant to this Transaction Confirmation, National Grid shall have the right to seek alternative arrangements to deliver LNG to the Delivery Point(s).

Transgas Inc.

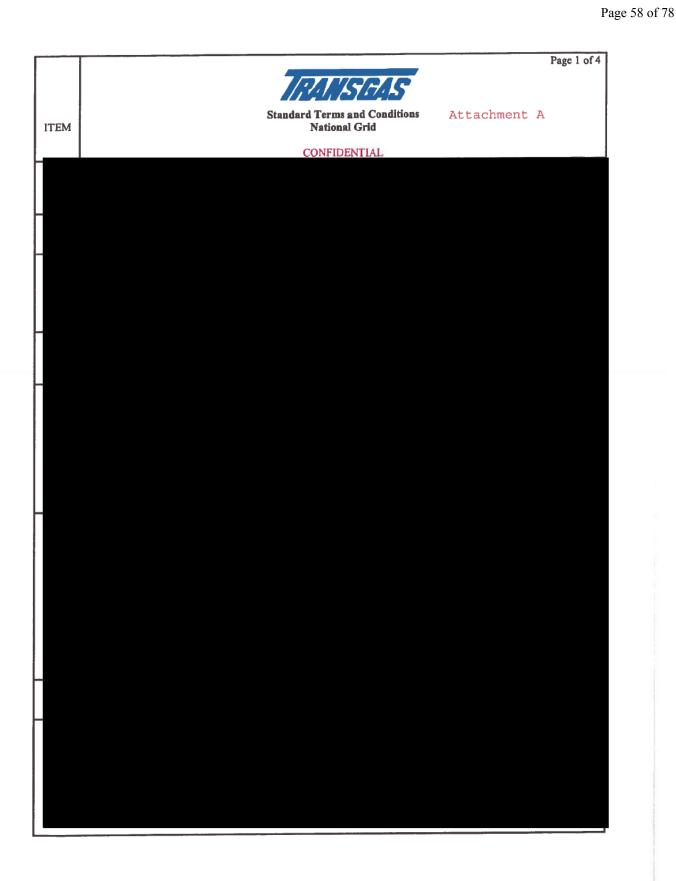
National Grid USA vice Company, Inc.

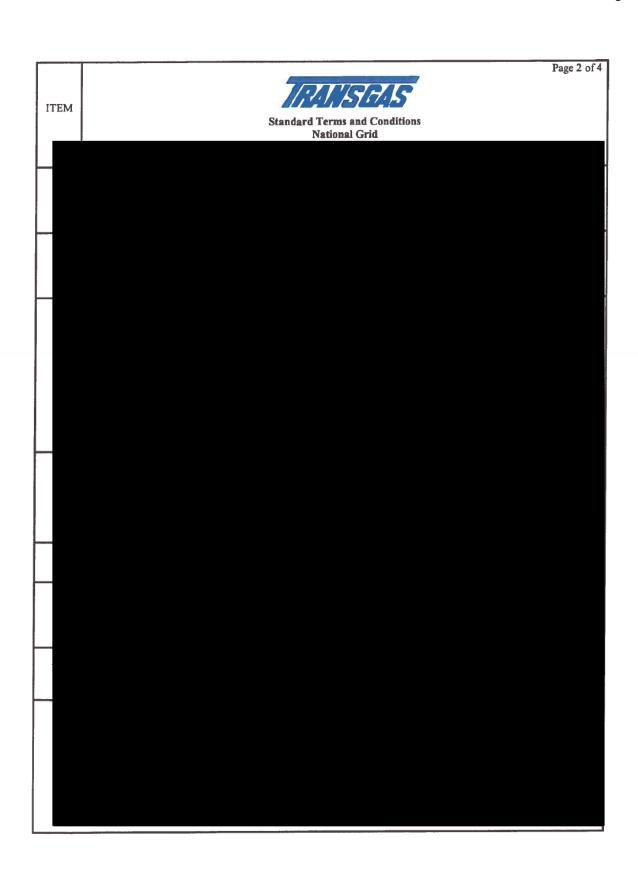
By:

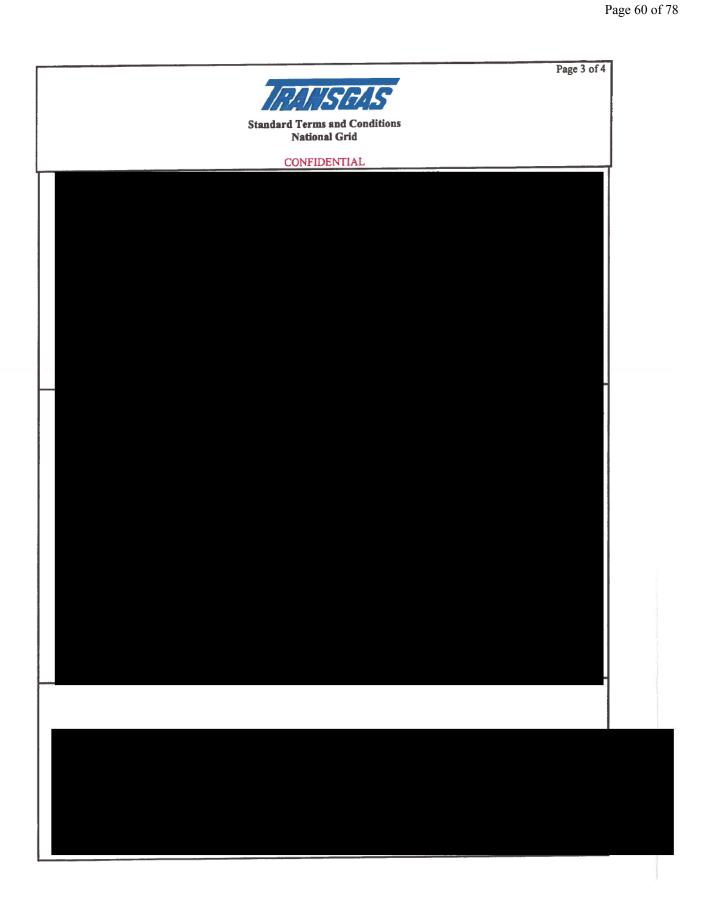
Name:

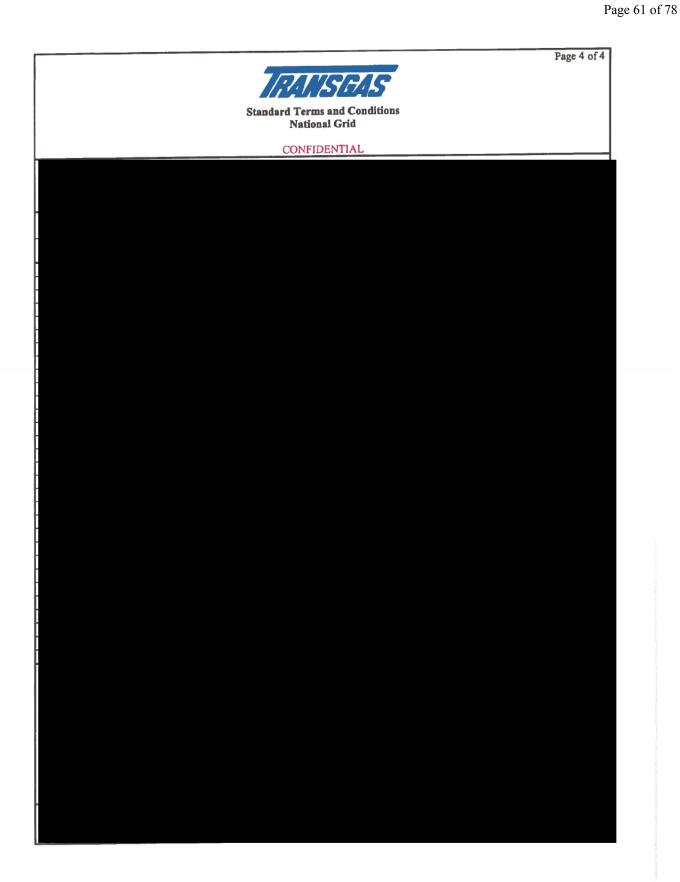
Title: John V. Vaughn

Authorized Signatory









Transaction Confirmation

Date: November 20, 2019

This Transaction Confirmation is subject to the LNG Transportation Services Agreement between National Grid and <u>Transgas Inc.</u> ("Transporter"), dated April 1, 2013 ("Agreement").

All capitalized terms used in this Transaction Confirmation and not otherwise defined shall have the meanings assigned to them in the Agreement.

The table below sets forth the Delivery Points, Cost per hundredweight for Receipts from Constellation LNG, LLC's ("Constellation") facility at 18 Rover Street, Everett, MA 02149.

Delivery Point (Nat. Grid Facility)	Estimated Billing Transportation Rate (per cwt) before Diesel Fuel Surcharge
Providence, RI NGRID-RI	
Dorchester, MA (5:01am-6:59pm)	
Dorchester, MA (7:00pm-5:00am)	
Exeter, RI	
Lynn, MA	
So. Yarmouth, MA	
Salem, MA	
Haverhill, MA	
Wareham, MA	
Tewksbury, MA	
Portable Vaporization Sites at National Grid's request	3

Delivery Period: On any Day during the term December 1, 2019 through and including April 1, 2020 National Grid shall have the right, but not the obligation, to call on Transporter to deliver to the Delivery Point(s) in order to serve National Grid.

Such obligation shall be commensurate with National Grid's supply agreements with Constellation during the Delivery Period, summarized as follows:

- a) For firm gas customers in the state of Massachusetts, National Grid has the right, but not the obligation, to purchase up to six (6) trucks per day from Constellation for a total seasonal quantity up to 254,250 MMBtu.
- b) For firm gas customers in the state of Rhode Island, National Grid has the right, but not the obligation, to purchase up to eight (21) trucks per day from Constellation for a total seasonal quantity up to 192,450 MMBtu.

Pricing: For Loads transported hereunder, National Grid shall pay Transporter the Cost identified above plus such additional charges agreed to by the Parties as part of Transporter's bid proposal ("Exhibit A") attached to this Transaction Confirmation and set forth in Attachment A of Exhibit A ("Transgas Standard Terms and Conditions National Grid). For all LNG Transportation from Constellation 's facility at 18 Rover Street, Everett, MA 02149 to the Portable Vaporizer facilities listed above, National Grid shall pay Transporter charges agreed to by the Parties as part of Exhibit A and set forth in Attachment B of Exhibit A ("Transgas LNG Portable Pipeline Price Schedule").

Special Conditions:

 This Transaction Confirmation was awarded pursuant to National Grid's Request for Proposals for LNG Transportation and Portable Vaporization Services dated October 7, 2019 the exhibits attached thereto, which are incorporated into and made a part hereof.

2.			

Transgas Inc.

BV: Sout

Name: John K. Flint

National Grid USA Service Company, Inc.

By:

Name: Title:

Authorized Signator)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 64 of 78



EXHIBIT A

TRANSGAS Inc. • 87 Industrial Avenue East • Lowell, MA 01852-5193 • Phone: 978-856-2900

Heidi L. Bond Vice President, Administration & Finance 978-856-2903 Heidi Bond@TransgasLNG.com

October 22, 2019

Ms. Samara Jaffe
Lead Program Manager- Gas Contracting, Compliance & Hedging
National Grid
100 E. Old Country Road
Hicksville, NY 11801

RE: LNG Transportation and Portable Pipeline Services

Dear Ms. Jaffe:

Transgas is pleased to submit this Proposal, in response to your RFP dated October 7, 2019, for LNG Transportation and Portable Vaporization Requirements from December 1, 2019 – April 1, 2020 from the Constellation LNG Everett, MA facility to the LNG storage facilities of National Grid's gas distribution affiliates in Massachusetts and in Rhode Island.

For the certainty of supply for anticipated critical periods during the contract term, Transgas has elected to provide pricing from the Constellation LNG Everett, MA facility only. It is our professional opinion that the risk is far too great to transport LNG from Susquehanna County, PA and Montreal, OC and meet the critical demands anticipated this winter.

Transgas is pleased to offer National Grid our services subject to the following:

- Transgas is pleased and able to meet and provide 100% of the LNG Transportation Services
 requirements outlined in the RFP, in Massachusetts providing up to six (6) loads per day, as
 available, Monday thru Friday or up to approximately 254,250 MMBtu and in Rhode Island
 providing up to twenty (21) loads per day, as available, Monday thru Friday or up to
 approximately 192,450 MMBtu exclusively to the LNG facilities outlined in Exhibit 24,
 Attachment A and B during the delivery period.
- 2. Transgas has included and is able to meet and provide 100% of the Portable Vaporization Services requirements outlined in the RFP, which may require deliveries 24 hours per day, 7 days per week and may be on less the 24 hours' notice as outlined in Exhibit 24, Attachment A and C. Transgas has been a long standing provider of these services with the equipment and experienced personnel to perform these services.
- 3. It is Transgas' desire to provide National Grid with exceptional transportation services during the requested delivery period. To maximize our trucking capacity and in turn, to maximize the number of deliveries to National Grid facilities, Transgas is requesting that trucking for LNG tank refill (non-critical) purposes be levelized during each of the delivery periods. Additionally, it is expected that LNG tank refill or non-critical deliveries will not occur during critical demand periods when transportation will be directed to meet the requirements for the Portable Pipeline sites.

Transgas - Experience you can count on

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 65 of 78



CONFIDENTIAL

S. Jaffe, National Grid, 10/22/19, Page 2 of 3

- 4. During the Delivery Period, unless Transgas is unable to satisfy its obligations to National Grid, Transgas shall serve as National Grid's sole carrier of LNG out of the Constellation LNG Everett, MA facility. In the event Transgas is unable to satisfy its obligations to National Grid with respect to the Transportation of LNG during the Delivery Period, National Grid shall have the right to seek alternative arrangements to deliver LNG to its facilities and portable vaporizer sites.
- Based on the award of services, if 100% of the supply does not originate from the Constellation LNG Everett, MA facility, Transgas will expect that the required loads per day will also be proportionally recalculated.

Transgas is in full compliance with all of the requirements outlined in Exhibits 1-24 below and in your RFP. With few exceptions (Attachments A-E), all information remains unchanged from Transgas' most recent proposal or with current information on file with National Grid.

- 1 LNG Delivery Locations
- 2. National Grid Process Safety Requirements
- 3. National Grid Safety Procedure: Contractor Safety Requirements
- 4. National Grid Contractor Environmental Requirements
- NGSP 6 Background Check Requirements for Contracted Service Providers
- 6. Global Procurement Our Sustainability Policy
- 7. Drug and Alcohol Prevention Plan
- 8. Supplier Ethics Certification Certification letter attached as Attachment D
- 9. Equal Employment Compliance
- 10. National Grid PLC Anti-Fraud and Bribery Policy
- 11. PS-00-02 Facility Siting Procedure
- 12. PS-00-01 Process Hazard Analysis (PHA) Procedure
- 13. PS-00-03 Layer of Protection Analysis (LOPA) Procedure
- 14. PS-02-02 Management of Change Procedure
- 15. PS-02-01 Pre Start Up Safety Review (PSSR) Procedure
- 16. Safe Motor Vehicle Operations Compliance letter attached as Attachment E
- 17. Supplier Code of Conduct
- 18. Safety Critical Activities Procedure Categorization Risk Ranking Tool
- 19. Human Factors Implementation Plan for Safety in Design
- 20. Safety in Design Specification for Incorporating Human Factors
- 21. Contractor Insurance Schedule
- 22 LNG Truck Transfer Requirements
- Transaction Confirmation To be completed following acceptance of proposal

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 66 of 78



CONFIDENTIAL

S. Jaffe, National Grid, 10/22/19, Page 3 of 3

24. Pricing Options Format, Attachment A-C

- LNG Transportation Services: The distance Commodity Delivery Rates are indicated in Attachment A (Exhibit 24). Any additional applicable charges, including but not limited to cancellation rates, waiting time rates, fuel rates, Saturday, Sunday, or holiday shipment rates, short notice ordering, short notice cancellations, detention of equipment, tolls, and layover charges are contained in Transgas' Standard Terms and Conditions included as Attachment B. All rates are contingent upon the ongoing endorsement of currently defined carrier routes by federal, state and local authorities.
- Portable Vaporization Services: For loads delivered to Portable
 Vaporization Sites for the Delivery Period, the Delivery Rates for each
 location are indicated in Attachment A (Exhibit 24) as referenced and
 charged in accordance with Transgas' LNG Portable Pipeline Price Schedule
 included as Attachment C. All rates are contingent upon the ongoing
 endorsement of currently defined carrier routes by federal, state and local
 authorities.

This Bid Proposal is valid through October 28, 2019. The information contained in this Proposal is proprietary and confidential and is requested to be treated as such, and not be disclosed without a seven day advance written notice to Transgas.

Transgas sincerely hopes that its record of over 50 years of safe and dependable service, including many years of exclusive service to National Grid will be taken into consideration and assist you in selecting Transgas as the successful bidder for your LNG trucking requirements.

While we consider this proposal to be our best and complete offer, Transgas would be happy to answer any questions or concerns you may have. I can be reached by phone at 978-856-2903 or by email at Heidi.Bond@TransgasLNG.com.

As always, Transgas appreciates your business and we look forward to continuing to provide National Grid with our safe, dependable, and locally headquartered LNG transportation service.

Sincerely,

cc: John E. Allocca

Elizabeth D. Arangio MaryBeth Carroll

Dino C. Papetti Janet A. Prag

Attachments

Transgas – Experience you can count on

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 67 of 78

REDACTED



Exhibit 24

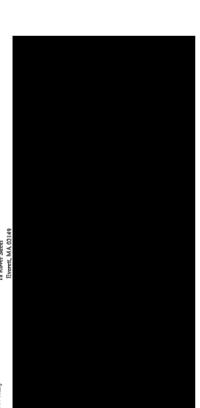
Attachment A (Page 1 of 2) CONFIDENTIAL

For LNG Transportation from the Constellation LNG Everout, MA Facility
To National Orid Massachearts and Roode Idand
LNG Permanent Tank Facilities
December 1, 2019 - April 1, 2020

** AB pairing subject of Trangas' Strodald Tryas and Cardithers, Mixenront ft ** 1. Andropy to 10 19 19 90 10 10.

The physical address of the Constellation Everett, MA Facility





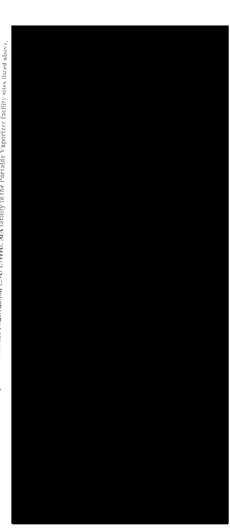


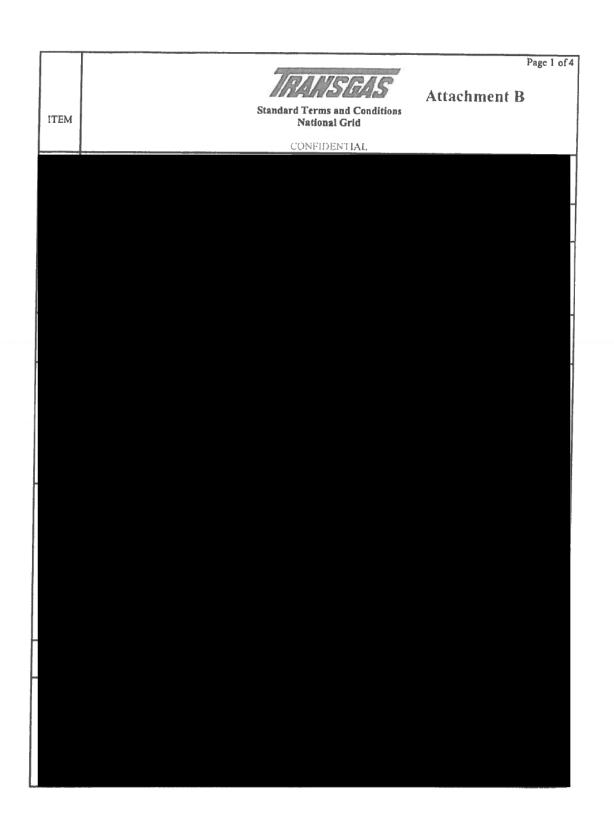
Attachment A (Page 2 of 2) CONFIDENTIAL

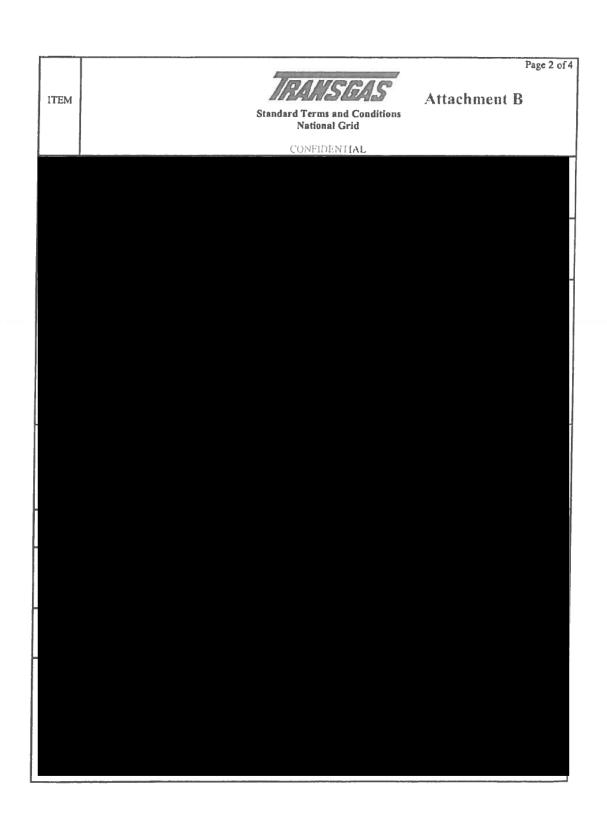
r L.NG Transportation and/or Portable Vaporization Services from the Constellation L.NG Everett, MA Facility To National Grid Massachusetts and Rhode Island Exhibit 24 Peak Senson

LNG Portable Vaporization Sites December 1, 2019 - April 1, 2020

*** The Trangas' Portable Pipeline Price Schedule, Attachment C will apply to all LNG Transportation from the Constellation LNG Everett, MA facility to the Portable Vaporizer facility wirs listed above,



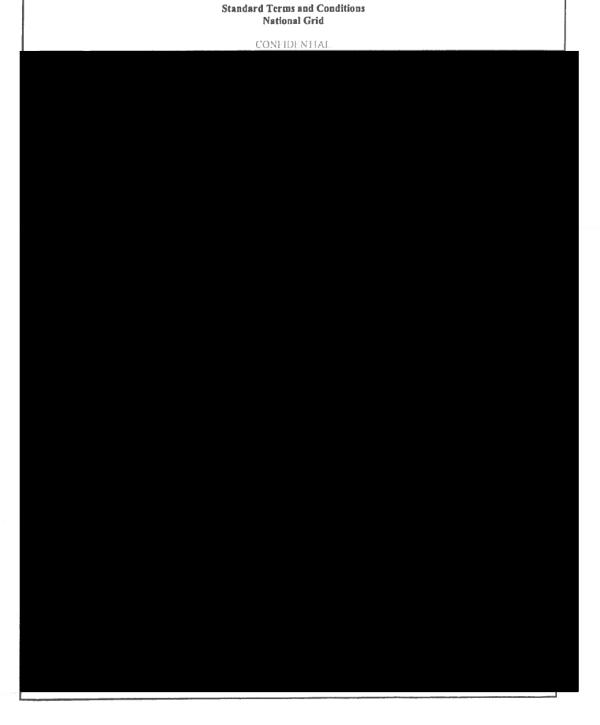


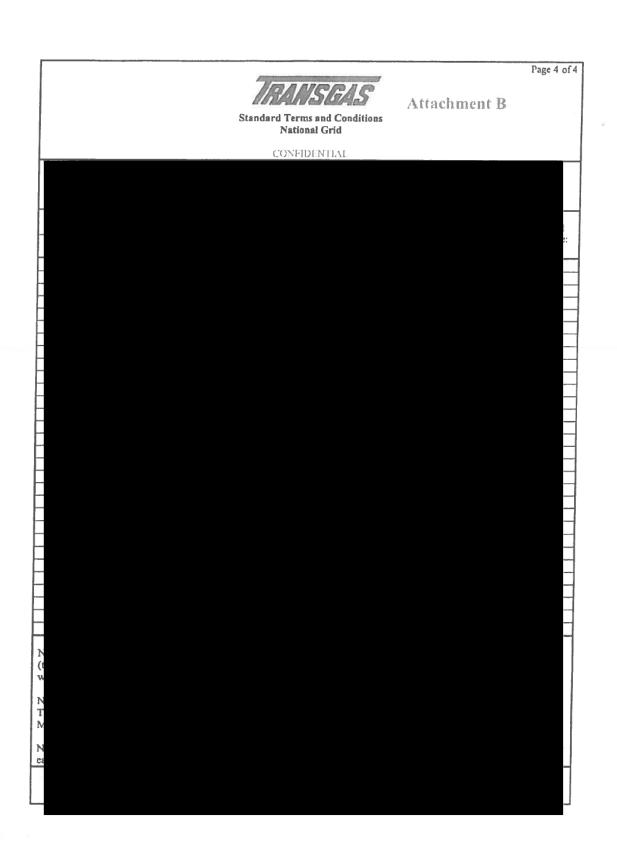


Page 3 of 4

Page 71 of 78

Attachment B





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 73 of 78



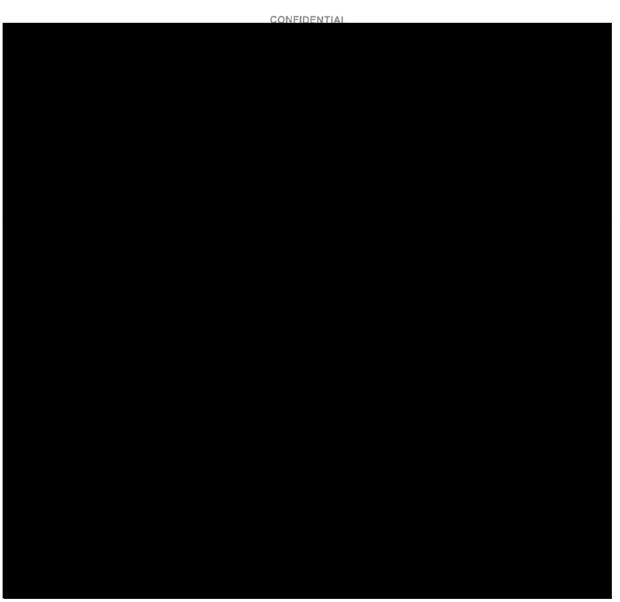
Attachment C

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 74 of 78

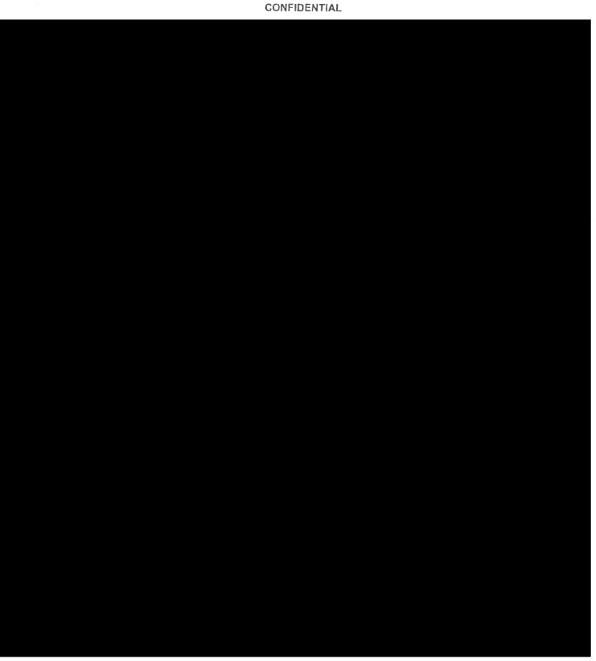




This Price Schedule is not a public document, is not on file with any federal or state authorities and contains privileged and confidential information.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 75 of 78





Experience you can count on

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Experience you can count on

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 77 of 78

Hlachment D

SUPPLIER ETHICS CERTIFICATION

Name of supplier: Transgas Inc
I herby certify on behalf of <u>Transgas Inc</u> (name of supplier) that I have read and understand the terms of the National Grid Global Supplier Code of Conduct. I affirm that I will distribute the National Grid Global Supplier Code of Conduct to all employees and subcontractors we utilize to work for/on behalf of National Grid.
Mafrie President
Title
10/21/19 Date

Once completed, please email to the following address: <u>DoingtheRightThing@nationalgrid.com</u> (or) mail to:

> US Ethics and Compliance Office National Grid 300 Erie Boulevard West, Syracuse, New York 13219

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 Attachment DIV 1-28 Page 78 of 78

CONFIDENTIAL ATTACHMENT E



TRANSGAS Inc. • 87 Industrial Avenue East • Lowell, Massachusetts 01852-5193 978-856-2900 • www.TransgasLNG.com • email: info@transgasLNG.com

October 22, 2019

To Whom It May Concern:

I have read and agree to abide by the content of the National Grid safety policy Safe Motor Vehicle Operations (SMVO) and National Grid safety procedure Contractor Safety Requirements (N-1402) to the extent that these sections apply to volumes delivered from a transaction resulting from the RFP.

Thomas E. Brady Director, Safety

H: Folder: Supporting Information for RFP NGrid October 2020 (Compliance with NGrid Safety Requirements)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5066 In Re: 2020 Annual Gas Cost Recovery Filing Responses to the Division's First Set of Data Requests Issued on August 19, 2020

Division 1-29

Request:

Please provide a copy of all contracts providing the purchase of supplies at Dracut in effect during the period April 2019 through July 2021.

Response:

For the period April 2019 through July 2021, the Company did not purchase any supplies at Dracut. As the Company explained in its 2020 Gas Cost Recovery Filing at page 25, line 2, beginning with the 2019/20 heating season, the Company filled its Dracut exposure through an asset management arrangement ("AMA"), which involved the release to an asset manager of the Company's Tennessee firm transportation capacity having primary receipts at Dracut and primary delivery entitlements to the Company's city-gate. Under the AMA, the Company has the right, but not the obligation, to call on the asset manager to deliver supply directly at the city-gate. Subject to satisfying the Company's gas supply requirements, the asset manager has the right to utilize the capacity for its own account. In exchange, the Company will receive an asset management fee, which is then fully credited to customers. Based on the result of request for proposals for the 2020/21 heating season, the Company again plans to fill its exposure at Dracut through a similar AMA.